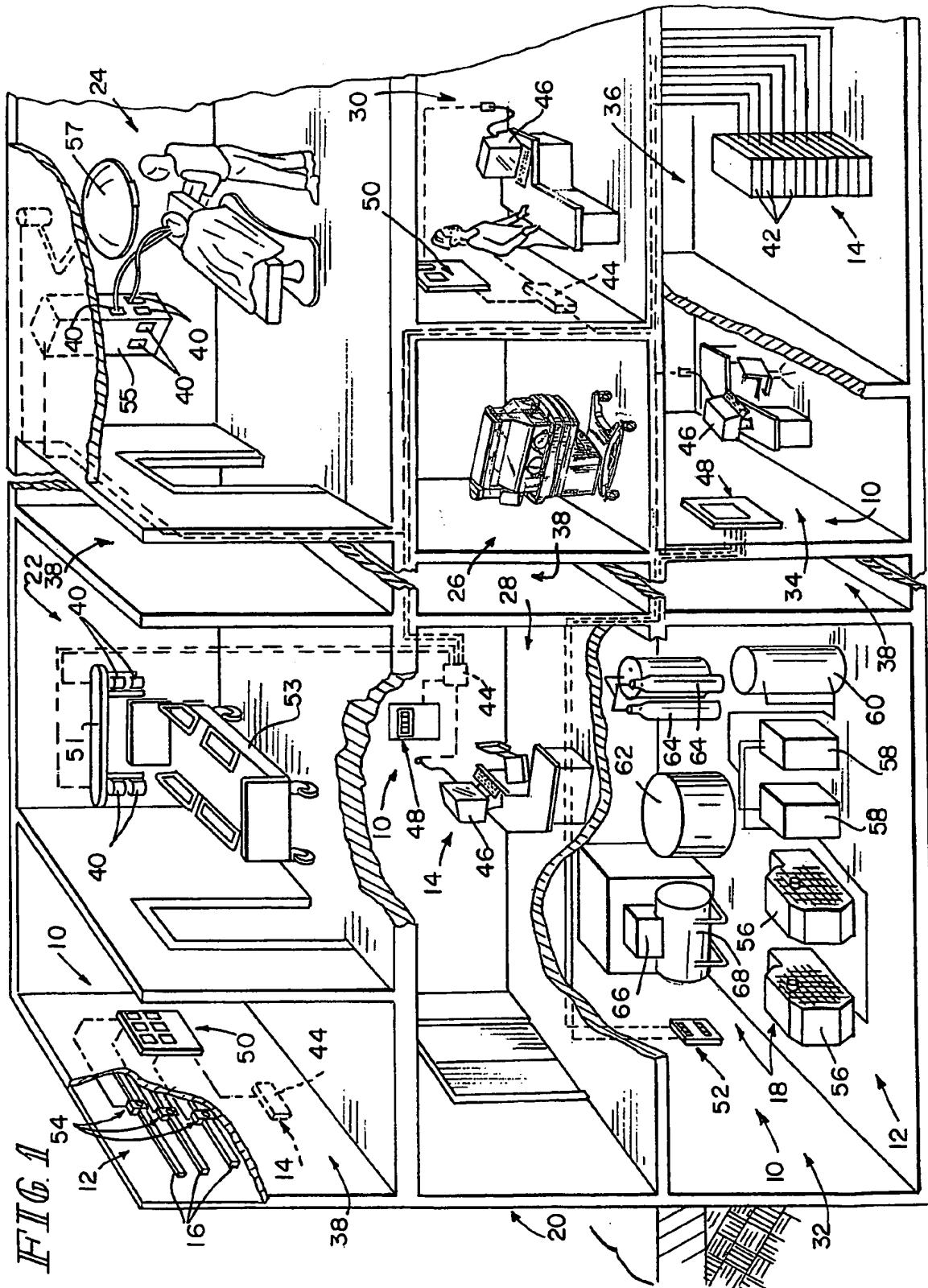




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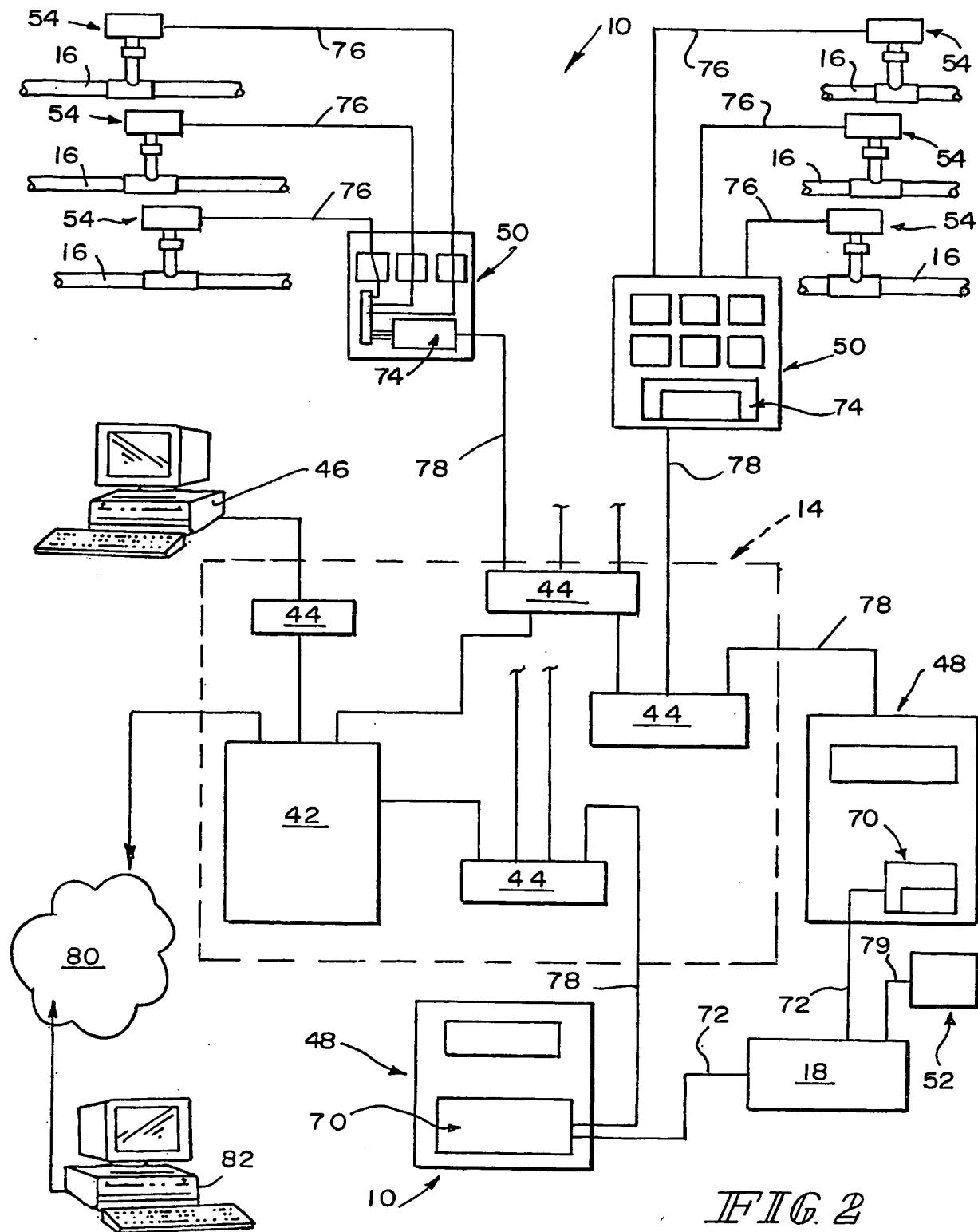


FIG. 2

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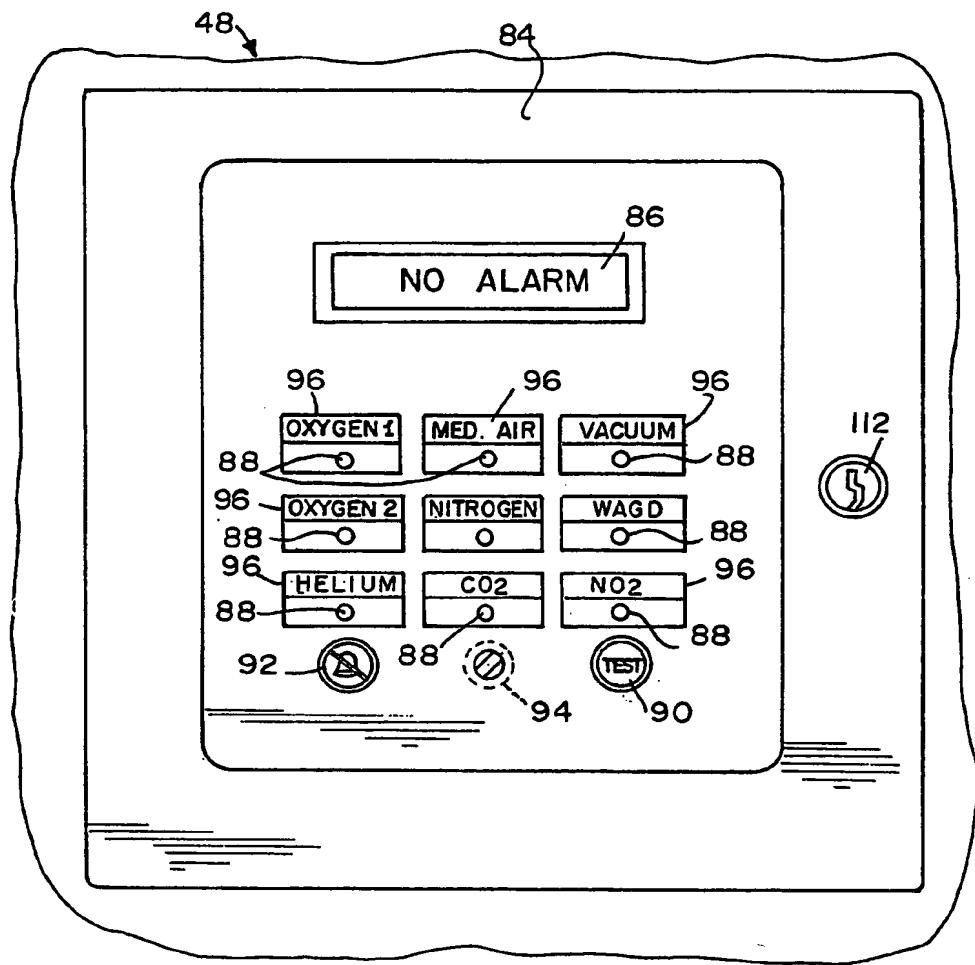
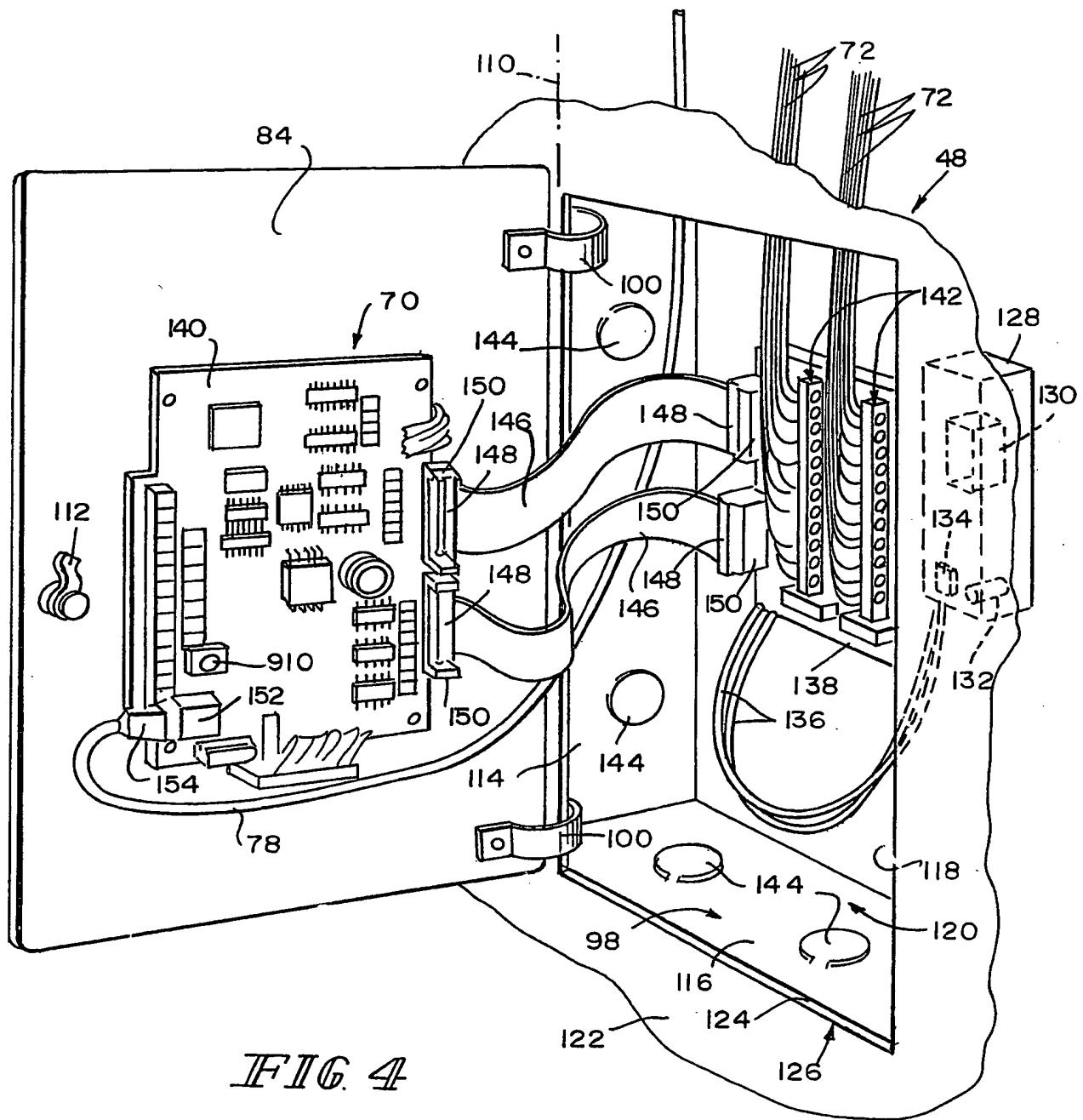


FIG. 3

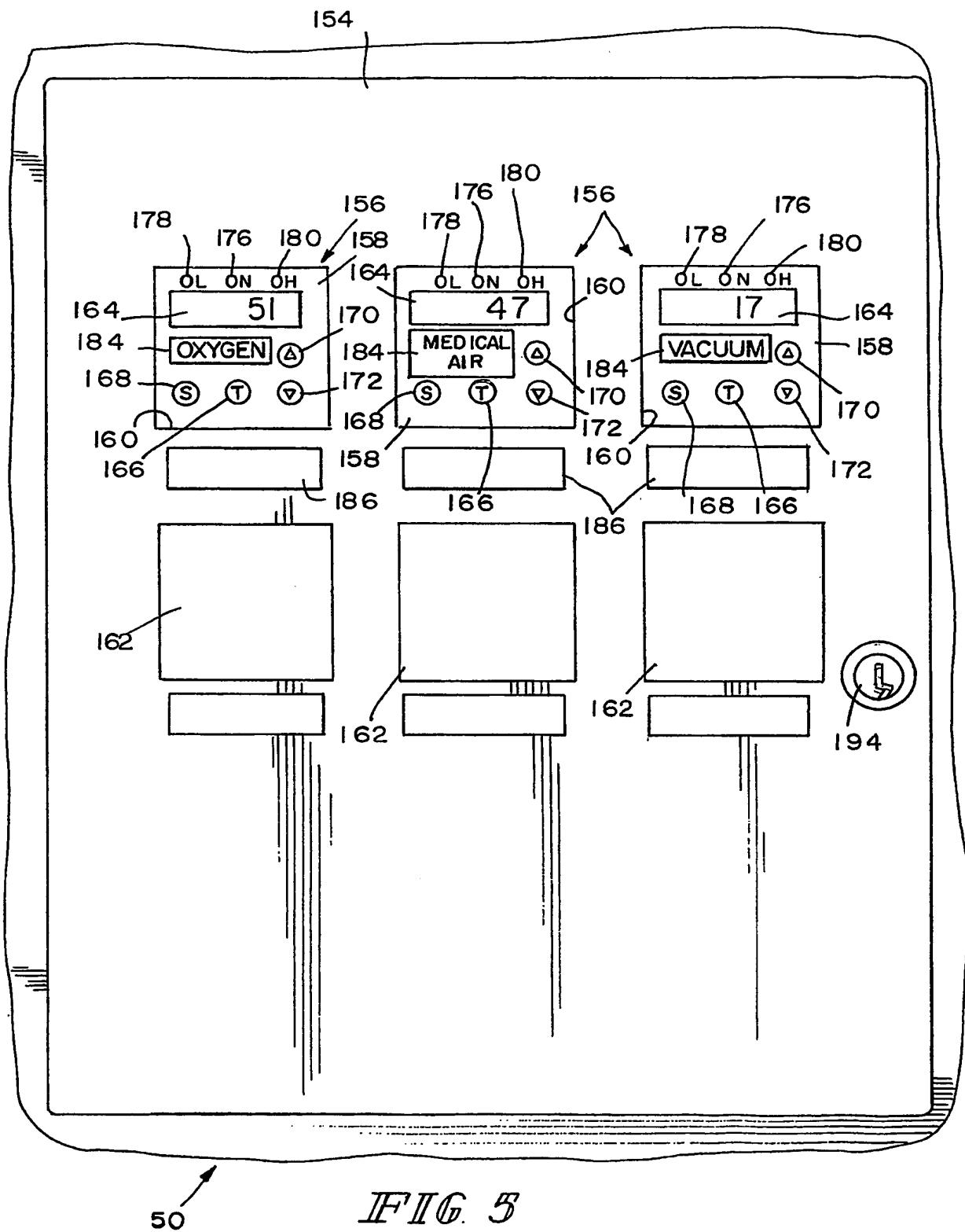
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FIG. 5

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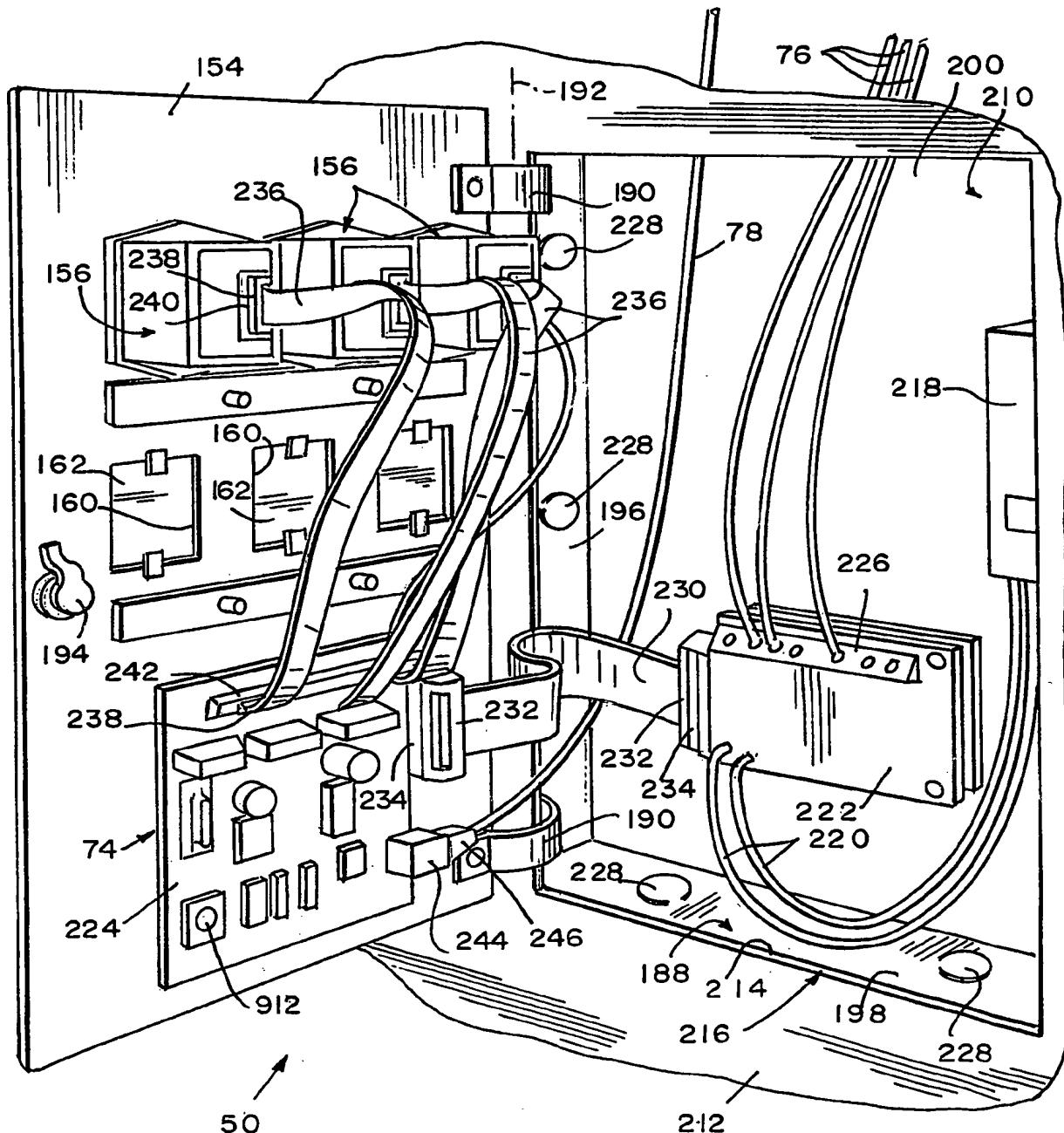


FIG. 6

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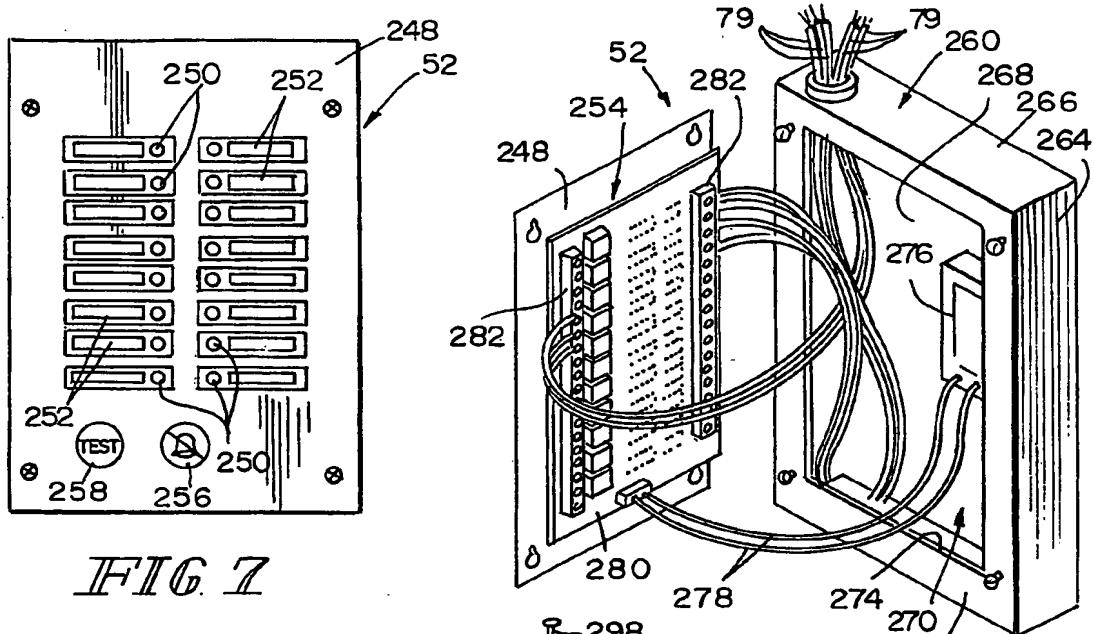


FIG. 7

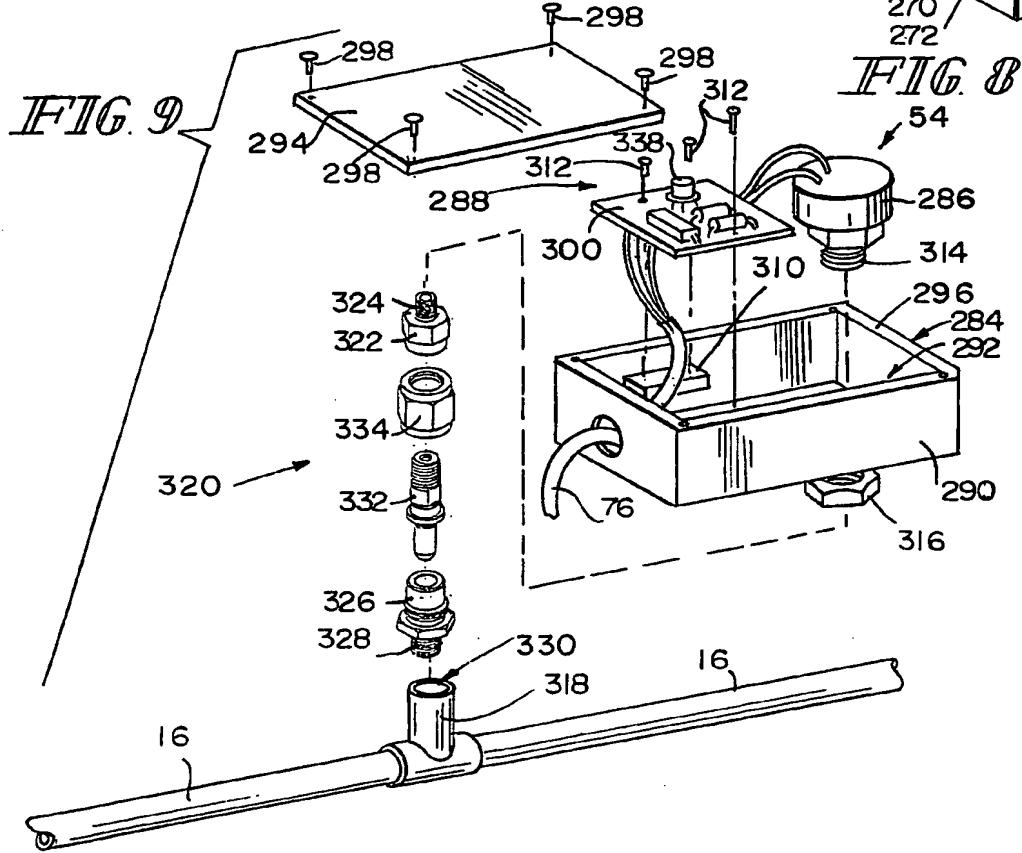
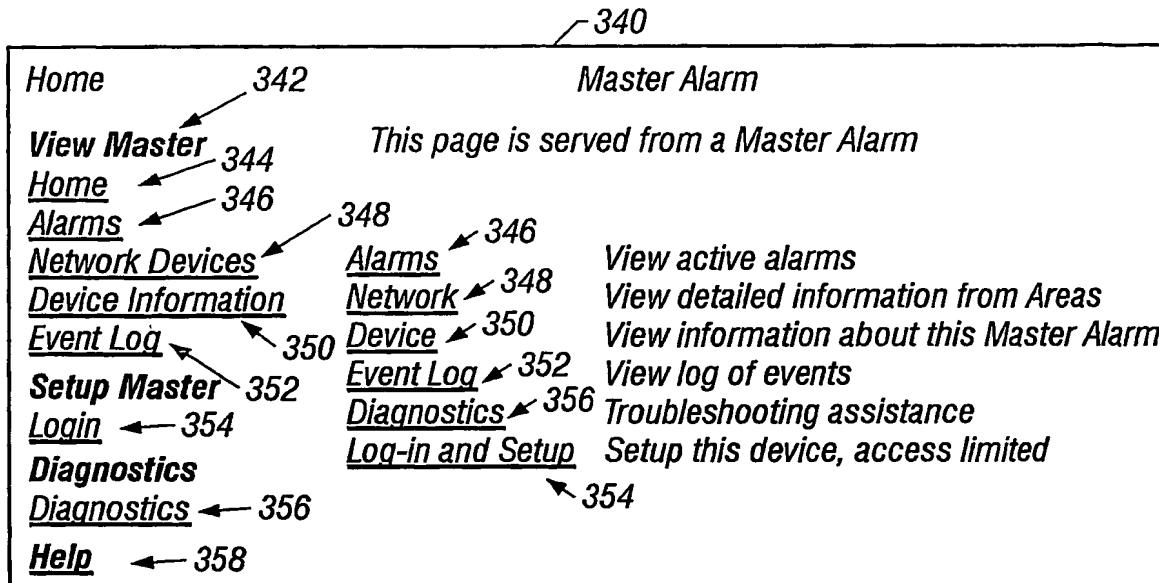


FIG. 9

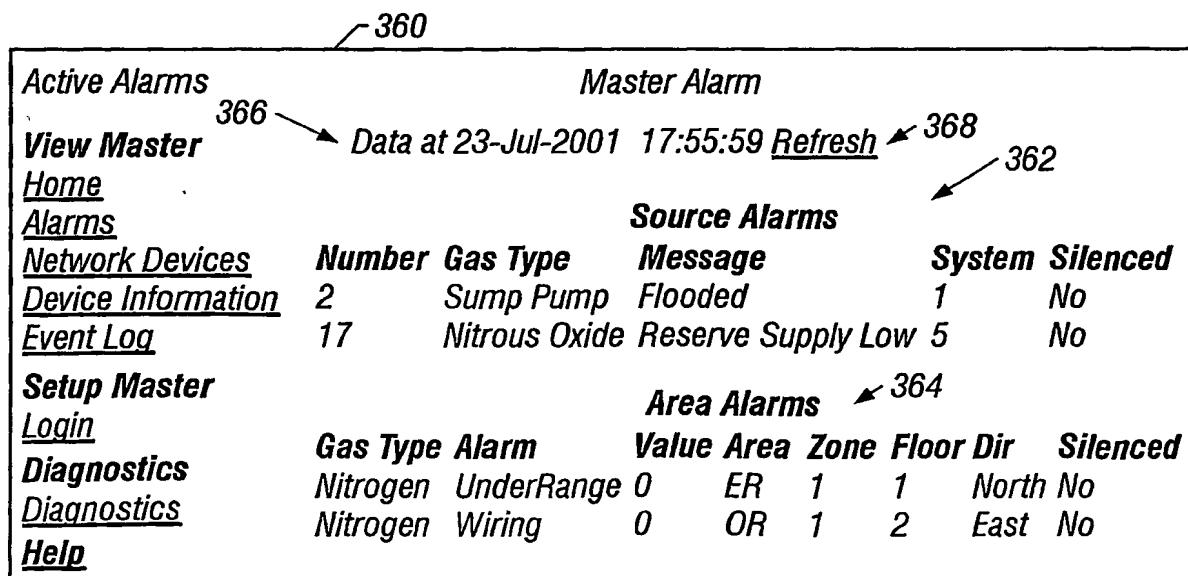
FIG. 8

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**FIG. 10**



**FIG. 11**

# REPLACEMENT SHEET

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Network Devices												
View Master Data at 06-Aug-2001 09:57:48 Refresh												
Home	Device	Jump	View	Type	SN	Area	Zone	Floor	Direction	Status	Alarms	
<u>Alarms</u>	This Master	<a href="#">Jump</a>	<a href="#">View</a>	AreaCombo	40000	General	1	1	North	Ok	Fault	
<u>Network Devices</u>	Master49000	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	49000	ER	3	2	East	Ok		
<u>Device information</u>	Area39001	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39001	ENG	2	4	North	Ok	None	
<u>Event Log</u>	Area39002	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39002	OR	2	2	North	Ok	None	
<u>Setup Master</u>	Area39003	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39003	PACU	3	1	North	Ok	None	
<u>Login</u>	Area39004	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39004	CCU	1	4	East	Ok	None	
<u>Diagnostics</u>	Area39005	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39005	ENG	1	1	North	Ok	None	
<u>Diagnostics</u>	Area39006	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39006	OR	1	1	South	Ok	None	
<u>Help</u>	Area39010	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39010	PACU	3	2	East	Ok	None	
	Area39007	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39007	PACU	3	2	East	Ok	None	
	Area39008	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39008	ER	3	5	East	Ok	None	
	Area39009	<a href="#">Jump</a>	<a href="#">View</a>	AreaComms	39009	CCU	3	3	North	Ok	None	

372 373

**FIG. 12A**

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Device Information		Master Alarm	
View Master			
<u>Home</u>		Type	Master Alarm
<u>Alarms</u>		Serial Number	10013
<u>Network Devices</u>		Model Number	HRMM-0000-0000
<u>Device Information</u>		Software Version	0.37
<u>Event Log</u>		Software Build	024
<u>Setup Master</u>		Current Time	28-Jun-2001 13:33:39
<u>Login</u>		Date Code	Week 23, 2001
<u>Diagnostics</u>		Name	Master10013
<u>Diagnostics</u>		Location	PBX
<u>Help</u>		Zone	1
		Floor	1
		Direction	South
		IP Address	192.168.1.100
		MAC Address	00:03:aa:00:00:13

**FIG. 13**

# REPLACEMENT SHEET

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Specific Area		387 Master Alarm										
<a href="#">View Master</a> <a href="#">Home</a> <a href="#">Alarms</a> <a href="#">Network Devices</a> <a href="#">Device Information</a> <a href="#">Event Log</a> <a href="#">Setup Master</a> <a href="#">Login</a> <a href="#">Diagnostics</a> <a href="#">Diagnostics</a> <a href="#">Help</a>	<a href="#">Back</a> <a href="#">Refresh</a> 376											
	<b>Area Communication Module</b>											
	<b>Name</b>	<b>SN</b>	<b>Area</b>	<b>Zone</b>	<b>Floor</b>	<b>Dir</b>	<b>Status</b>					
	This Master	40000	General	1	1	North	Ok					
	<b>Area Displays</b>											
	<b>Gas Type</b>	<b>SN</b>	<b>Trans SN</b>	<b>Item</b>	<b>Value</b>	<b>Units</b>	<b>Alarm</b>	<b>Area</b>	<b>Zone</b>	<b>Floor</b>	<b>Dir</b>	<b>Status</b>
	Nitrogen	5000	0	Pressure	0	PSI	None	ER	1	1	North	Wiring
	Nitrogen	5004	0	Pressure	0	PSI	None	OR	1	2	East	Wiring

**FIG. 12B**

377

Specific Area		387 Master Alarm										
<a href="#">View Master</a> <a href="#">Home</a> <a href="#">Alarms</a> <a href="#">Network Devices</a> <a href="#">Device Information</a> <a href="#">Event Log</a> <a href="#">Setup Master</a> <a href="#">Login</a> <a href="#">Diagnostics</a> <a href="#">Diagnostics</a> <a href="#">Help</a>	<a href="#">Back</a> <a href="#">Refresh</a> 376											
	<b>Area Communication Module</b>											
	<b>Name</b>	<b>SN</b>	<b>Area</b>	<b>Zone</b>	<b>Floor</b>	<b>Dir</b>	<b>Status</b>					
	Area39002	39002	OR	2	2	North	Ok					
	<b>Area Displays</b>											
	<b>Gas Type</b>	<b>SN</b>	<b>Trans SN</b>	<b>Item</b>	<b>Value</b>	<b>Units</b>	<b>Alarm</b>	<b>Area</b>	<b>Zone</b>	<b>Floor</b>	<b>Dir</b>	<b>Status</b>
	Oxygen	29021	19021	Pressure	26	PSI	None	ICU	3	4	South	Ok
	Medical Air	29022	19022	Pressure	58	PSI	None	ICU	3	4	South	Ok
Medical Air	29023	19023	Pressure	60	PSI	None	CCU	2	5	South	Ok	
Oxygen	29024	19024	Pressure	39	PSI	None	CCU	2	4	South	Ok	
WAGD	29025	19025	Pressure	30	PSI	None	ICU	3	5	East	Ok	
WAGD	29026	19026	Pressure	42	PSI	None	ER	3	5	South	Ok	

**FIG. 12C**

# REPLACEMENT SHEET

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<u>Event Log</u>	394	Master Alarm
<u>View Master</u>		<u>Refresh</u> Data at 28-Jun-2001- 13:33:55
<u>Home</u>		
<u>Alarms</u>	388	<u>To save as a file, right click here and select 'Save Target As...'</u>
<u>Network Devices</u>		
<u>Device Information</u>		27-Jun-2001 15:04:37 - Remote Fault Occured - Nitrogen Fault OR 1 Floor 1 East
<u>Event Log</u>	386	27-Jun-2001 15:04:37 - Remote Alarm Occured - Nitrogen Failed 0 OR 1 Floor 1
<u>Setup Master</u>		East
<u>Login</u>	388	27-Jun-2001 15:04:45 - Remote Fault Cleared - Nitrogen Ok OR 1 Floor 1 East
<u>Diagnostics</u>		27-Jun-2001 15:04:45 - Remote Alarm Cleared - Nitrogen 0 OR 1 Floor 1 East
<u>Diagnostics</u>		27-Jun-2001 17:41:38 - Checksum Ok
<u>Help</u>		27-Jun-2001 17:43:01 - Power-up
	386	27-Jun-2001 17:43:02 - Daily Checksum INCORRECT
		27-Jun-2001 17:43:59 - Remote Alarm Occured - Nitrogen High 130 OR 1 Floor 1 East
	390	27-Jun-2001 17:45:17 - Power-up
		27-Jun-2001 17:45:17 - Daily Checksum INCORRECT
		27-Jun-2001 17:45:19 - Remote Alarm Occured - Nitrogen High 0 OR 1 Floor 1 East
		27-Jun-2001 17:47:32 - Stack Shutdown - code: 1
	386	27-Jun-2001 17:47:33 - Daily Checksum INCORRECT
		27-Jun-2001 17:47:35 - Remote Alarm Occured - Nitrogen High 130 OR 1 Floor 1 East
		27-Jun-2001 17:48:44 - Remote Alarms Silenced
	386	27-Jun-2001 17:49:01 - Remote Area Ethernet Lost Comms11
		28-Jun-2001 07:35:42 - Alarm 1 Activated, Medical Air, Low Line Pressure, System 1
		28-Jun-2001 07:35:42 - Daily Checksum INCORRECT
		28-Jun-2001 07:37:10 - Remote Area Ethernet Lost SN 1051
		28-Jun-2001 07:45:01 - Power-up
		28-Jun-2001 07:45:01 - Daily Checksum INCORRECT
		28-Jun-2001 07:45:41 - Alarm 3 Activated, Oxygen, Low Line Pressure, System 1
		28-Jun-2001 07:45:43 - Alarm 4 Activated, Oxygen, Resrv. Supply in Use, System 1
	390	28-Jun-2001 07:45:48 - User 'new' logged in
		28-Jun-2001 07:45:56 - User 'new' logged out
		28-Jun-2001 07:48:18 - Power-up
	386	28-Jun-2001 07:48:19 - Alarm 2 Activated, Sump Pump, Flooded, System 1
	390	28-Jun-2001 07:49:46 - Remote Area Ethernet Lost SN1051
		28-Jun-2001 07:54:38 - Power-up
		28-Jun-2001 07:56:30 - Alarm 9 Activated, WAGD, Thermal Shutdown, System 1
	386	28-Jun-2001 07:56:40 - Alarm 10 Activated, WAGD, Service Required, System 1
		28-Jun-2001 08:13:59 - Alarm 11 Activated, WAGD, Backup Vac. Pump On, System

382 384

**FIG. 14**

## REPLACEMENT SHEET

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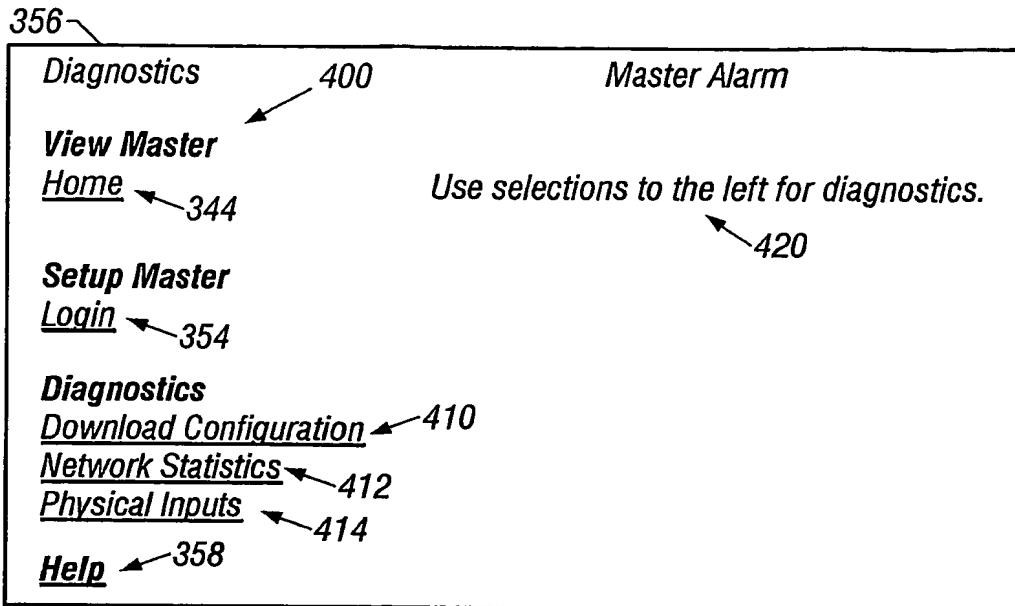


FIG. 15

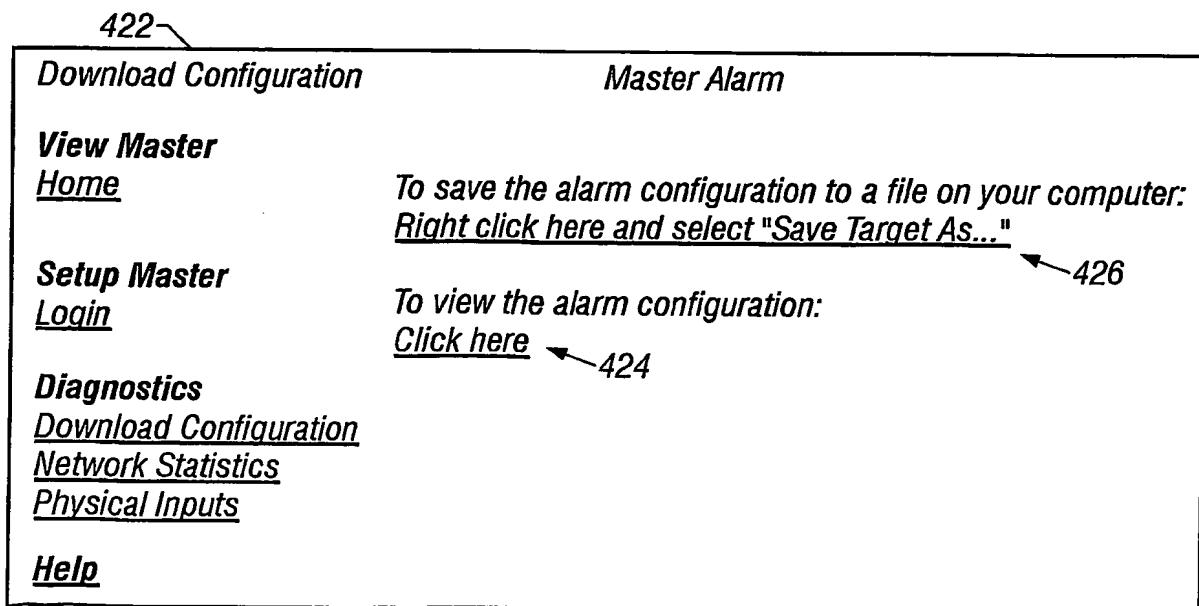


FIG. 16

428

*Master Alarm - Device Configuration**Master Alarm Configuration Summary**Device Name - Master10013**Location - no location**Language - English**Alarm Silence - never**IP Addressing - DHCP, Auto IP, Fixed**Firmware version - 0.37*

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*Alarm 1 - Medical Air, Low Line Pressure, led=1, system=1**Alarm 2 - Medical Air, Compressor Malfunc., led=1, system=1**Alarm 3 - Oxygen, Low Line Pressure, led=2, system=1**Alarm 4 - Oxygen, Resrv. Supply in Use, led=2, system=1**Alarm 5 - Oxygen, Low Line Pressure, led=2, system=2**Alarm 6 - Oxygen, Resrv. Supply in Use, led=2, system=2**Alarm 7 - Medical Vacuum, Low Vacuum, led=3, system=1**Alarm 8 - Medical Vacuum, Service Required, led=3, system=1**Alarm 9 - WAGD, Thermal Shutdown, led=4, system=1**Alarm 10 - WAGD, Service Required, led=4, system=1**Alarm 11 - WAGD, Backup Vac. Pump On, led=4, system=1**Alarm 12 - Unused**Alarm 13 - Unused**Alarm 14 - Unused**Alarm 15 - Unused**Alarm 16 - Unused**Alarm 17 - Nitrous Oxide, Reserve Supply Low, led=3, system=5**Alarm 18 - Unused**Alarm 19 - Unused**Alarm 20 - Unused**Alarm 21 - Unused**Alarm 22 - Unused**Alarm 23 - Unused**Alarm 24 - Unused**Alarm 25 - Unused**Alarm 26 - Unused**Alarm 27 - Unused**Alarm 28 - Unused**Alarm 29 - Unused**Alarm 30 - Unused*

FIG. 17

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<i>Network Statistics</i>	436	<i>Master Alarm</i>
<i>View Master</i>		<i>Refresh</i>
<i>Home</i>		<i>IP Address</i> 192.168.1.100
		<i>Subnet</i> 255.255.255.0
<i>Setup Master</i>		<i>Gateway</i> 192.168.1.1
<i>Login</i>		<i>Fixed IP Address</i> 192.168.1.1
		<i>Fixed Subnet</i> 255.0.0.0
<i>Diagnostics</i>		<i>Fixed Gateway</i> 0.0.0.0
<i>Download Configuration</i>		<i>Mac Address</i> 00:03:aa:00:00:13
<i>Network Statistics</i>		<i>Receives</i> 354
<i>Physical Inputs</i>		<i>Unicasts</i> 332
		<i>Multicasts</i> 0
<i>Help</i>		<i>Broadcasts</i> 22
		<i>Rx Errors</i> 0
		<i>Rx Missed</i> 0
		<i>Rx CRC Errors</i> 0
		<i>Rx Drops</i> 0
		<i>Transmits</i> 603
		<i>Buffer Defers</i> 0
		<i>Tx Errors</i> 0
		<i>Tx Collisions</i> 0
		<i>Tx Coll. Overflow</i> 0
		<i>Tx FILO Errors</i> 0
		<i>Traffic Backoffs</i> 0

FIG. 18

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<p><b>Hardware Diagnostics</b></p> <p><u><a href="#">View Master Home</a></u></p> <p><u><a href="#">Setup Master Login</a></u></p> <p><u><a href="#">Diagnostics</a></u></p> <p><u><a href="#">Download Configuration</a></u></p> <p><u><a href="#">Network Statistics</a></u></p> <p><u><a href="#">Physical Inputs</a></u></p> <p><u><a href="#">Help</a></u></p>	<p><b>Master Alarm</b></p> <p><u><a href="#">Refresh</a></u> 446</p> <p><b>Physical Inputs:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Input</th> <th>State</th> <th>Input</th> <th>State</th> <th>Input</th> <th>State</th> </tr> </thead> <tbody> <tr><td>1</td><td>Open</td><td>11</td><td>Open</td><td>21</td><td>Open</td></tr> <tr><td>2</td><td>Open</td><td>12</td><td>Open</td><td>22</td><td>Open</td></tr> <tr><td>3</td><td>Open</td><td>13</td><td>Open</td><td>23</td><td>Open</td></tr> <tr><td>4</td><td>Open</td><td>14</td><td>Open</td><td>24</td><td>Closed</td></tr> <tr><td>5</td><td>Open</td><td>15</td><td>Open</td><td>25</td><td>Open</td></tr> <tr><td>6</td><td>Open</td><td>16</td><td>Open</td><td>26</td><td>Open</td></tr> <tr><td>7</td><td>Open</td><td>17</td><td>Open</td><td>27</td><td>Open</td></tr> <tr><td>8</td><td>Open</td><td>18</td><td>Open</td><td>28</td><td>Open</td></tr> <tr><td>9</td><td>Open</td><td>19</td><td>Open</td><td>29</td><td>Open</td></tr> <tr><td>10</td><td>Open</td><td>20</td><td>Open</td><td>30</td><td>Open</td></tr> </tbody> </table> <p>442 → <i>Audible is On</i></p> <p>444 → <i>Current Display</i>  <i>Medical Vacuum Sys 1</i>  <i>Low Vacuum</i></p>	Input	State	Input	State	Input	State	1	Open	11	Open	21	Open	2	Open	12	Open	22	Open	3	Open	13	Open	23	Open	4	Open	14	Open	24	Closed	5	Open	15	Open	25	Open	6	Open	16	Open	26	Open	7	Open	17	Open	27	Open	8	Open	18	Open	28	Open	9	Open	19	Open	29	Open	10	Open	20	Open	30	Open
Input	State	Input	State	Input	State																																																														
1	Open	11	Open	21	Open																																																														
2	Open	12	Open	22	Open																																																														
3	Open	13	Open	23	Open																																																														
4	Open	14	Open	24	Closed																																																														
5	Open	15	Open	25	Open																																																														
6	Open	16	Open	26	Open																																																														
7	Open	17	Open	27	Open																																																														
8	Open	18	Open	28	Open																																																														
9	Open	19	Open	29	Open																																																														
10	Open	20	Open	30	Open																																																														

**FIG. 19**

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<p><b>Login</b></p> <p><u><a href="#">View Master Home</a></u></p> <p><u><a href="#">Alarms</a></u></p> <p><u><a href="#">Network Devices</a></u></p> <p><u><a href="#">Device Information</a></u></p> <p><u><a href="#">Event Log</a></u></p> <p><u><a href="#">Setup Master Login</a></u></p> <p><u><a href="#">Diagnostics</a></u></p> <p><u><a href="#">Help</a></u></p>	<p><b>Master Alarm</b></p> <p><i>These entries are case sensitive</i></p> <p>User Name <input type="text" value="new"/> 458</p> <p>Password <input type="text"/> 460</p> <p><input type="button" value="Submit"/> 462</p>
--	---

**FIG. 20**

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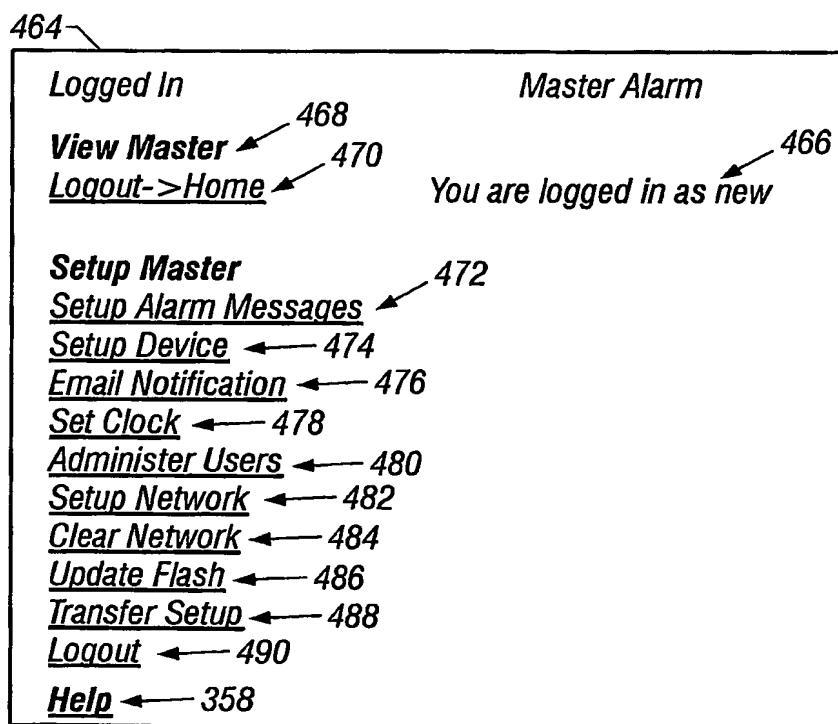


FIG. 21

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Alarm Message Setup		Master Alarm				
		Click on a number to change an alarm message				
<u>View Master</u>	<u>Home</u>	Alarm Input	Gas Type	Message for Condition	LED	System
<u>Setup Master</u>	494	1	Medical Air	Low Line Pressure	1	1
<u>Setup Alarm Messages</u>		2	Medical Air	Compressor Malfunc.	1	1
<u>Setup Device</u>		3	Oxygen	Low Line Pressure	2	1
<u>Email Notification</u>		4	Oxygen	Resrv. Supply in Use	2	1
<u>Set Clock</u>		5	Oxygen	Low Line Pressure	2	2
<u>Administer Users</u>		6	Oxygen	Resrv. Supply in Use	2	2
<u>Setup Network</u>		7	Medical Vacuum	Low Vacuum	3	1
<u>Clear Network</u>		8	Medical Vacuum	Service Required	3	1
<u>Update Flash</u>		9	WAGD	Thermal Shutdown	4	1
<u>Transfer Setup</u>		10	WAGD	Service Required	4	1
<u>Help</u>		11	WAGD	Backup Vac. Pump Low	4	1
		12	Unused	Unused	0	1
		13	Unused	Unused	0	1
		14	Unused	Unused	0	1
		15	Unused	Unused	0	1
		16	Unused	Unused	0	1
	494	17	Nitrous Oxide	Reserve Supply Low	3	5
		18	Unused	Unused	0	1
		19	Unused	Unused	0	1
		20	Unused	Unused	0	1
		21	Unused	Unused	0	1
		22	Unused	Unused	0	1
		23	Unused	Unused	0	1
		24	Unused	Unused	0	1
		25	Unused	Unused	0	1
		26	Unused	Unused	0	1
		27	Unused	Unused	0	1
		28	Unused	Unused	0	1
		29	Unused	Unused	0	1
	494	30	Unused	Unused	0	1

**FIG. 22**

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<p><b>Setup Alarm Messages Step</b> 2</p> <p><b><u>View Master</u></b> <u>Logout-&gt;Home</u></p> <p><b><u>Setup Master</u></b> <b><u>Setup Alarm Messages</u></b> <b><u>Setup Device</u></b> <b><u>Email Notification</u></b> <b><u>Set Clock</u></b> <b><u>Administer Users</u></b> <b><u>Setup Network</u></b> <b><u>Clear Network</u></b> <b><u>Update Flash</u></b> <b><u>Transfer Setup</u></b> <b><u>Logout</u></b> <b><u>Help</u></b></p>	<p><b>Master Alarm</b></p> <p><i>Select the Gas Type that is wired to input 17</i></p> <p>498</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">Gas Type</td> <td style="width: 80%; text-align: center;"><input type="text" value="Nitrous Oxide"/> 512</td> </tr> <tr> <td>LED 500</td> <td style="text-align: center;">3 512</td> </tr> <tr> <td>System 510</td> <td style="text-align: center;">5 512</td> </tr> </table> <p style="text-align: center;"><b>Next</b> 514</p>	Gas Type	<input type="text" value="Nitrous Oxide"/> 512	LED 500	3 512	System 510	5 512
Gas Type	<input type="text" value="Nitrous Oxide"/> 512						
LED 500	3 512						
System 510	5 512						

**FIG. 23**

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<p><b>Setup Alarm Messages Step</b> 3</p> <p><b><u>View Master</u></b> <u>Logout-&gt;Home</u></p> <p><b><u>Setup Master</u></b> <b><u>Setup Alarm Messages</u></b> <b><u>Setup Device</u></b> <b><u>Email Notification</u></b> <b><u>Set Clock</u></b> <b><u>Administer Users</u></b> <b><u>Setup Network</u></b> <b><u>Clear Network</u></b> <b><u>Update Flash</u></b> <b><u>Transfer Setup</u></b> <b><u>Logout</u></b> <b><u>Help</u></b></p>	<p><b>Master Alarm</b></p> <table border="0" style="width: 100%;"> <tr> <td style="width: 30%;">Alarm Number</td> <td style="width: 10%;">17</td> </tr> <tr> <td>Gas Type</td> <td>Nitrous Oxide</td> </tr> <tr> <td>LED Number</td> <td>3</td> </tr> <tr> <td>System Number</td> <td>5</td> </tr> <tr> <td>Alarm message for this input</td> <td><input type="text" value="Reserve Supply Low"/> 520</td> </tr> </table> <p style="text-align: center;"><b>Next</b> 522 518</p>	Alarm Number	17	Gas Type	Nitrous Oxide	LED Number	3	System Number	5	Alarm message for this input	<input type="text" value="Reserve Supply Low"/> 520
Alarm Number	17										
Gas Type	Nitrous Oxide										
LED Number	3										
System Number	5										
Alarm message for this input	<input type="text" value="Reserve Supply Low"/> 520										

**FIG. 24**

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<p><i>Setup Alarm Messages Final</i></p> <p><b><i>View Master</i></b></p> <p><u><i>Logout-&gt;Home</i></u></p> <p><b><i>Setup Master</i></b></p> <p><u><i>Setup Alarm Messages</i></u></p> <p><u><i>Setup Device</i></u></p> <p><u><i>Email Notification</i></u></p> <p><u><i>Set Clock</i></u></p> <p><u><i>Administer Users</i></u></p> <p><u><i>Setup Network</i></u></p> <p><u><i>Clear Network</i></u></p> <p><u><i>Update Flash</i></u></p> <p><u><i>Transfer Setup</i></u></p> <p><u><i>Logout</i></u></p> <p><u><i>Help</i></u></p>	<p><i>Master Alarm</i></p> <p><i>Changes complete</i></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><i>Input Number</i></td> <td style="width: 10%; text-align: center;"><b>17</b></td> </tr> <tr> <td><i>Gas Type</i></td> <td style="text-align: center;"><i>Nitrous Oxide</i></td> </tr> <tr> <td><i>Alarm Message</i></td> <td style="text-align: center;"><i>Reserve Supply Low</i></td> </tr> <tr> <td><i>LED Number</i></td> <td style="text-align: center;">3</td> </tr> <tr> <td><i>System Number</i></td> <td style="text-align: center;">5</td> </tr> </table> <p><u><i>Return to Alarm Messages</i></u></p>	<i>Input Number</i>	<b>17</b>	<i>Gas Type</i>	<i>Nitrous Oxide</i>	<i>Alarm Message</i>	<i>Reserve Supply Low</i>	<i>LED Number</i>	3	<i>System Number</i>	5
<i>Input Number</i>	<b>17</b>										
<i>Gas Type</i>	<i>Nitrous Oxide</i>										
<i>Alarm Message</i>	<i>Reserve Supply Low</i>										
<i>LED Number</i>	3										
<i>System Number</i>	5										

525

**FIG. 25**

526

<p><i>Setup Device</i></p> <p><b><i>View Master</i></b></p> <p><u><i>Logout-&gt;Home</i></u></p> <p><b><i>Setup Master</i></b></p> <p><u><i>Setup Alarm Messages</i></u></p> <p><u><i>Setup Device</i></u></p> <p><u><i>Email Notification</i></u></p> <p><u><i>Set Clock</i></u></p> <p><u><i>Administer Users</i></u></p> <p><u><i>Setup Network</i></u></p> <p><u><i>Clear Network</i></u></p> <p><u><i>Update Flash</i></u></p> <p><u><i>Transfer Setup</i></u></p> <p><u><i>Logout</i></u></p> <p><u><i>Help</i></u></p>	<p><i>Master Alarm</i></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><i>Device Name</i></td> <td style="width: 10%; text-align: center;"><b>528</b></td> <td style="width: 60%;"><input type="text" value="Master10013"/></td> </tr> <tr> <td><i>Location</i></td> <td style="text-align: center;"><b>530</b></td> <td><input type="text" value="PBX"/> <input type="button" value="▼"/></td> </tr> <tr> <td><i>Zone</i></td> <td style="text-align: center;"><b>534</b></td> <td><input type="text" value="1"/></td> </tr> <tr> <td><i>Floor</i></td> <td style="text-align: center;"><b>536</b></td> <td><input type="text" value="1"/></td> </tr> <tr> <td><i>Direction</i></td> <td style="text-align: center;"><b>538</b></td> <td><input type="text" value="South"/> <input type="button" value="▼"/></td> </tr> <tr> <td><i>Silenced return time</i></td> <td style="text-align: center;"><b>542</b></td> <td><input type="text" value="never"/> <input type="button" value="▼"/></td> </tr> </table> <p><b>544</b> <input type="button" value="Submit"/> <input type="button" value="Reset"/> <b>546</b></p>	<i>Device Name</i>	<b>528</b>	<input type="text" value="Master10013"/>	<i>Location</i>	<b>530</b>	<input type="text" value="PBX"/> <input type="button" value="▼"/>	<i>Zone</i>	<b>534</b>	<input type="text" value="1"/>	<i>Floor</i>	<b>536</b>	<input type="text" value="1"/>	<i>Direction</i>	<b>538</b>	<input type="text" value="South"/> <input type="button" value="▼"/>	<i>Silenced return time</i>	<b>542</b>	<input type="text" value="never"/> <input type="button" value="▼"/>
<i>Device Name</i>	<b>528</b>	<input type="text" value="Master10013"/>																	
<i>Location</i>	<b>530</b>	<input type="text" value="PBX"/> <input type="button" value="▼"/>																	
<i>Zone</i>	<b>534</b>	<input type="text" value="1"/>																	
<i>Floor</i>	<b>536</b>	<input type="text" value="1"/>																	
<i>Direction</i>	<b>538</b>	<input type="text" value="South"/> <input type="button" value="▼"/>																	
<i>Silenced return time</i>	<b>542</b>	<input type="text" value="never"/> <input type="button" value="▼"/>																	

**FIG. 26**

## REPLACEMENT SHEET

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<p><i>Device Setup Accepted</i></p> <p><b><u>View Master</u></b>  <u>Logout-&gt;Home</u></p> <p><b><u>Setup Master</u></b>  <u>Setup Alarm Messages</u>  <u>Setup Device</u>  <u>Email Notification</u>  <u>Set Clock</u>  <u>Administer Users</u>  <u>Setup Network</u>  <u>Clear Network</u>  <u>Update Flash</u>  <u>Transfer Setup</u>  <u>Logout</u></p> <p><b><u>Help</u></b></p>	<p><i>Master Alarm</i></p> <p><i>Changes to device setup were accepted</i></p> <p style="text-align: right;">550 →</p>
---	--

**FIG. 27**

<p><b><u>Email Notification</u></b></p> <p><b><u>View Master</u></b>  <u>Home</u></p> <p><b><u>Setup Master</u></b>  <u>Setup Alarm Messages</u>  <u>Setup Device</u>  <u>Email Notification</u>  <u>Set Clock</u>  <u>Administer Users</u>  <u>Setup Network</u>  <u>Clear Network</u>  <u>Update Flash</u>  <u>Transfer Setup</u></p> <p><b><u>Help</u></b></p>	<p><i>Master Alarm</i></p> <p>552 →</p> <p><b>SMTP Server Name</b> <input type="text" value="smtp.hospital.com"/> Example: smtp.hospital.com</p> <p>556 → <b>SMTP Server Address</b> <input type="text"/> Alternate to name: NNN.NNN.NNN.NNN</p> <p>558 → <b>Email Address 1</b> <input type="text" value="FacilityEngineer@hospital.com"/> Example: joe_service@hosital.com</p> <p>560 → <b>Email Address 2</b> <input type="text" value="2125554444@pager.com"/> Leave blank if unused</p> <p>562 → <b>Email Address 3</b> <input type="text"/> Leave blank if unused</p> <p>564 → <b>Submit</b></p> <p>566 → <b>Reset</b></p> <p>563 → The SMTP Server Address has priority over the SMTP Server Name.  To use the SMTP Server Name leave the SMTP Server Address blank.  The SMTP Server Name requires a DNS look-up.  Alarms that occur before the Server Name is resolved are not sent.</p>
---	---

**FIG. 28**

## REPLACEMENT SHEET

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568

<i>Email Changes Accepted</i>	<i>Master Alarm</i>
570	
<i>View Master</i>	<i>SMTP Server Name</i>
<i>Home</i>	<i>smtp.hospital.com</i>
<i>Setup Master</i>	<i>SMTP Server Address</i>
<i>Setup Alarm Messages</i>	<i>Email Address 1</i>
<i>Setup Device</i>	<i>Email Address 2</i>
<i>Email Notification</i>	<i>Email Address 3</i>
<i>Set Clock</i>	
<i>Administer Users</i>	
<i>Setup Network</i>	
<i>Clear Network</i>	
<i>Update Flash</i>	
<i>Transfer Setup</i>	
<i>Help</i>	

FIG. 29

572

<i>Set Clock</i>	<i>Master Alarm</i>
574	
<i>View Master</i>	<i>Current Time: 26-Jul-2001 10:54:27</i>
<i>Home</i>	
<i>Setup Master</i>	
<i>Setup Alarm Messages</i>	
<i>Setup Device</i>	
<i>Email Notification</i>	
<i>Set Clock</i>	
<i>Administer Users</i>	
<i>Setup Network</i>	
<i>Clear Network</i>	
<i>Update Flash</i>	
<i>Transfer Setup</i>	
<i>Help</i>	

576      588  
Year      2001 ▾  
578      588  
Month      Jul ▾  
580      588  
Date      26 ▾  
582      588  
Hour      10 ▾  
584      588  
Minute      54 ▾  
586      588  
Second      27 ▾  
590      592  
Submit      Reset

FIG. 30

## REPLACEMENT SHEET

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594

<i>Clock Accepted</i>	<i>Master Alarm</i>
<u><a href="#">View Master Home</a></u>	<i>596</i> → <i>Changes were accepted</i>
<u><a href="#">Setup Master</a></u>	<i>The clock is now set to 26-Jul-2001 10:54:27</i>
<u><a href="#">Setup Alarm Messages</a></u>	
<u><a href="#">Setup Device</a></u>	
<u><a href="#">Email Notification</a></u>	
<u><a href="#">Set Clock</a></u>	
<u><a href="#">Administer Users</a></u>	
<u><a href="#">Setup Network</a></u>	
<u><a href="#">Clear Network</a></u>	
<u><a href="#">Update Flash</a></u>	
<u><a href="#">Transfer Setup</a></u>	
<u><a href="#">Help</a></u>	

FIG. 31

598

<i>User Administration</i>	<i>Master Alarm</i>
<u><a href="#">View Master</a></u>	<i>These entries are case sensitive</i>
<u><a href="#">Logout-&gt;Home</a></u>	
<u><a href="#">Setup Master</a></u>	<i>User Name</i>
<u><a href="#">Setup Alarm Messages</a></u>	<i>User 1 Name</i>
<u><a href="#">Setup Device</a></u>	<i>User 2 Name</i>
<u><a href="#">Email Notification</a></u>	<i>User 3 Name</i>
<u><a href="#">Set Clock</a></u>	<i>600</i> → <i>610</i> →
<u><a href="#">Administer Users</a></u>	
<u><a href="#">Setup Network</a></u>	
<u><a href="#">Clear Network</a></u>	
<u><a href="#">Update Flash</a></u>	
<u><a href="#">Transfer Setup</a></u>	
<u><a href="#">Logout</a></u>	
<u><a href="#">Help</a></u>	

*612* → *614* → *Submit* *Reset*

FIG. 32

## REPLACEMENT SHEET

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616-

<i>User Name Changes</i>	<i>Master Alarm</i>
<i>Accepted</i>	
<b><i>View Master</i></b>	
<b><u><i>Home</i></u></b>	<i>Changes to user name and password were accepted</i>
<b><i>Setup Master</i></b>	
<b><u><i>Setup Alarm Messages</i></u></b>	
<b><u><i>Setup Device</i></u></b>	
<b><u><i>Email Notification</i></u></b>	
<b><u><i>Set Clock</i></u></b>	
<b><u><i>Administer Users</i></u></b>	
<b><u><i>Setup Network</i></u></b>	
<b><u><i>Clear Network</i></u></b>	
<b><u><i>Update Flash</i></u></b>	
<b><u><i>Transfer Setup</i></u></b>	
<b><u><i>Help</i></u></b>	

**FIG. 33**

## REPLACEMENT SHEET

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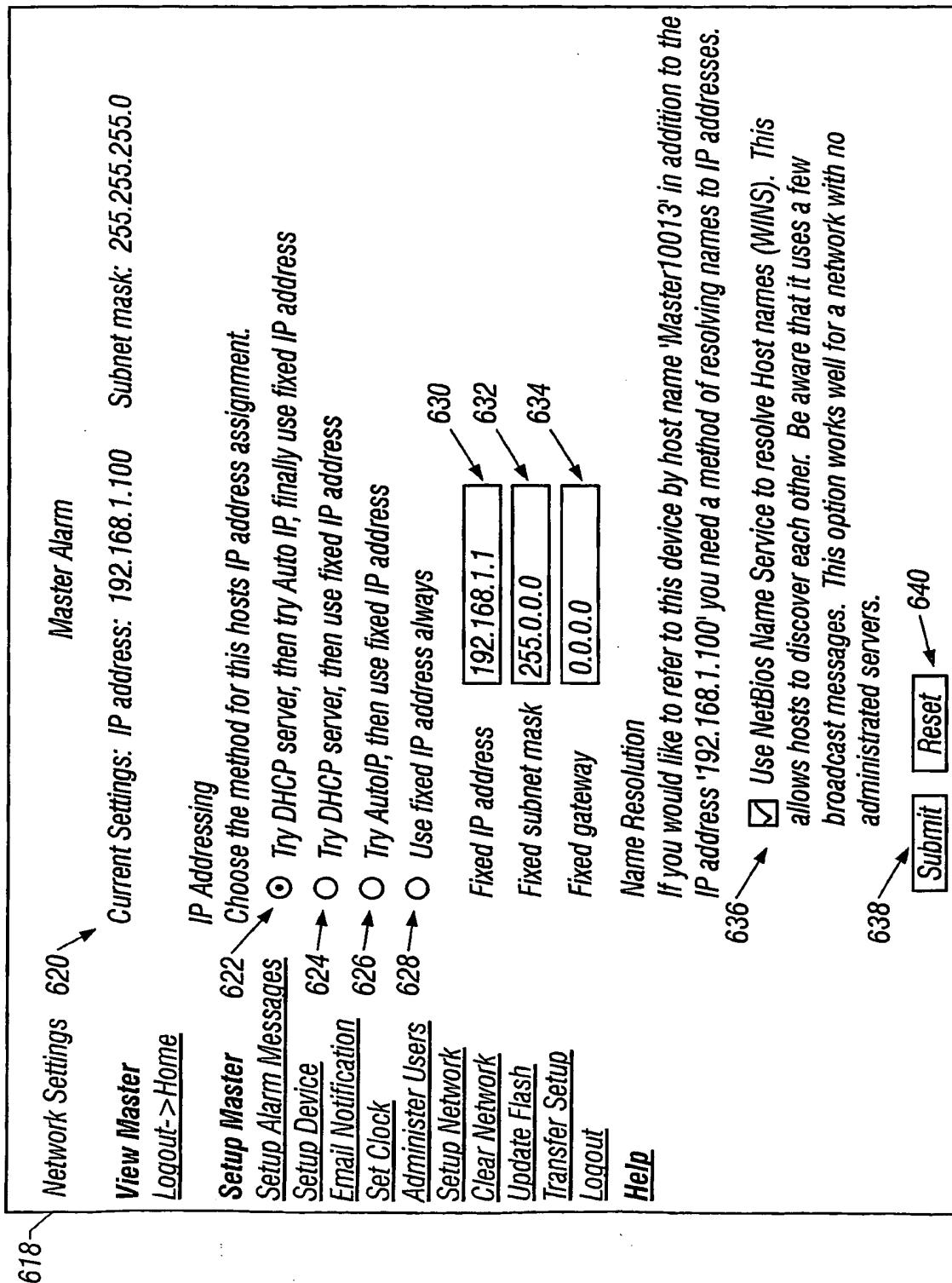


FIG. 34

## REPLACEMENT SHEET

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642

### Network Setup

Master Alarm

#### **View Master**

Home

*Network Changes were accepted*

#### **Setup Master**

Setup Alarm Messages

Setup Device

Email Notification

Set Clock

Administer Users

Setup Network

Clear Network

Update Flash

Transfer Setup

**Help**

**FIG. 35**

644

### Clear Network

Master Alarm

#### **View Master**

Logout->Home

*This operation refreshes the gas monitoring network.  
Clear the network if any device is removed or swapped out.  
This ensures the list of expected devices matches the  
current setup.*

646

#### **Setup Master**

Setup Alarm Messages

Setup Device

Email Notification

Set Clock

Administer Users

Setup Network

Clear Network

Update Flash

Transfer Setup

Logout

**Help**

648

*To clear the network Click Here*

**FIG. 36**

## REPLACEMENT SHEET

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650

*Changes Accepted*

*Master Alarm*

***View Master***

**Home**

*Changes were accepted*

***Setup Master***

**Setup Alarm Messages**

**Setup Device**

**Email Notification**

**Set Clock**

**Administer Users**

**Setup Network**

**Clear Network**

**Update Flash**

**Transfer Setup**

**Help**

**FIG. 37**

652

***Software Update***

*Master Alarm*

***View Master***

**Logout->Home**

654

*This device has updateable FLASH program memory. The memory can be updated with a new version of application software using a special program on your computer. Once the device enters the FLASH programming mode, new software must be downloaded from a PC.*

***Setup Master***

**Setup Alarm Messages**

**Setup Device**

**Email Notification**

656

*The download process must be completed successfully before this device will work correctly again.*

**Set Clock**

**Administer Users**

**Setup Network**

**Clear Network**

**Update Flash**

658

*Click here to enter the FLASH programming mode*

**Transfer Setup**

**Logout**

**Help**

**FIG. 38**

## REPLACEMENT SHEET

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660

*Verify FLASH Download  
Mode*

*Master Alarm*

**View Master  
Home**

*Verify your intention*

**Setup Master**

**Setup Alarm Messages**

**Setup Device**

**Email Notification**

**Set Clock**

**Administer Users**

**Setup Network**

**Clear Network**

**Update Flash**

**Transfer Setup**

*Once FLASH programming mode is entered the device will not operate as an alarm system until the download is successfully complete.*

**Click here to confirm entering FLASH programming mode**

662

**Help**

**FIG. 39**

664

*Configuration Transfer*

*Master Alarm*

**View Master**

**Logout->Home**

**Setup Master**

**Setup Alarm Messages**

**Setup Device**

**Email Notification**

**Set Clock**

**Administer Users**

**Setup Network**

**Clear Network**

**Update Flash**

**Transfer Setup**

**Logout**

**Help**

*The configuration from this device can be transferred to another master over the network.*

*To transfer the configuration from this Master Alarm to another, click on the master below.*

*This Master Alarm is:*

***Master10013 (192.168.1.100) PBX1 Floor 1 South***

*Transfer configuration to:*

***No other Masters Alarms were found***

666

668

670

**FIG. 40**

## REPLACEMENT SHEET

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672

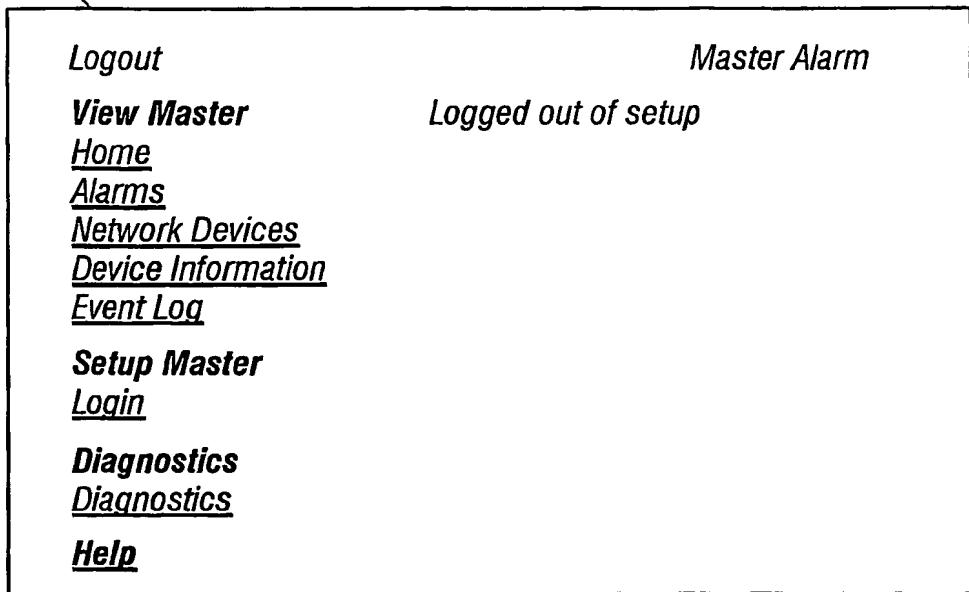


FIG. 41

680

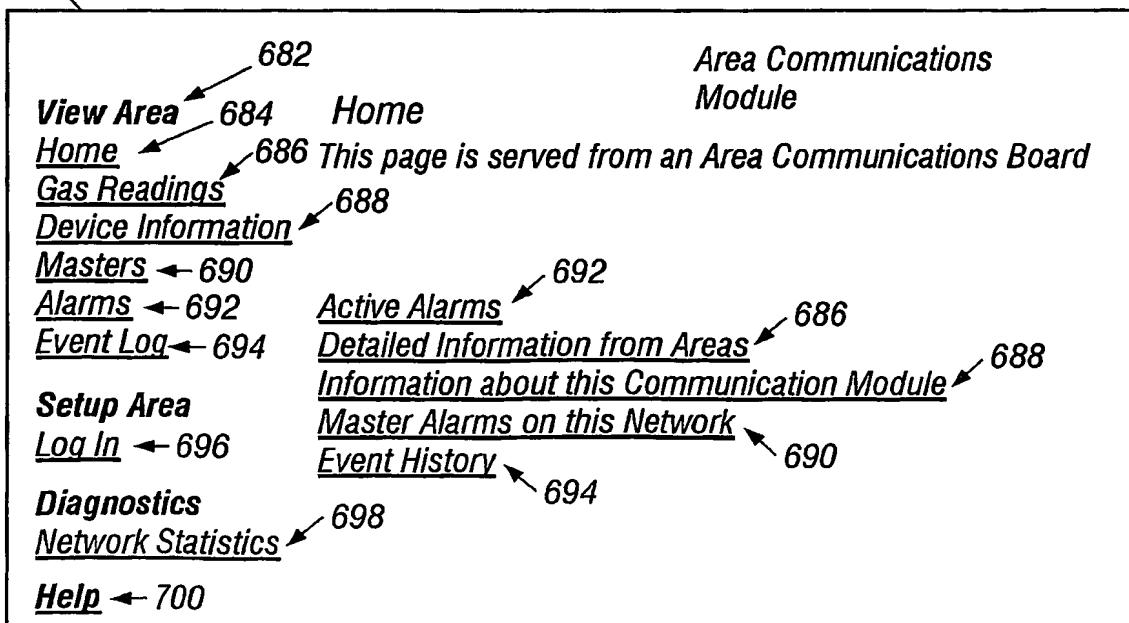


FIG. 42

# REPLACEMENT SHEET

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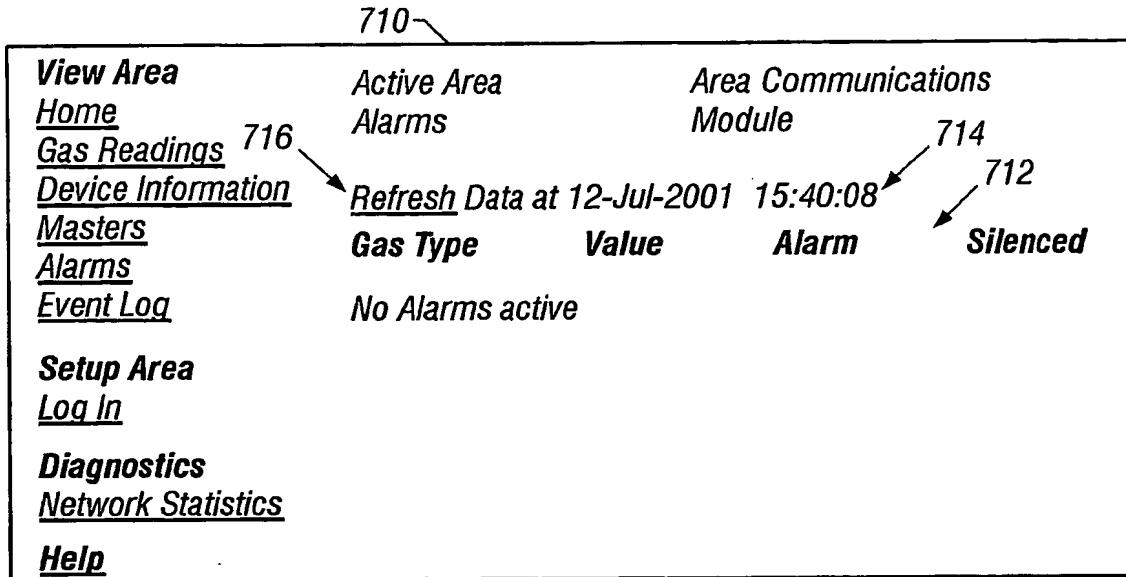


FIG. 43

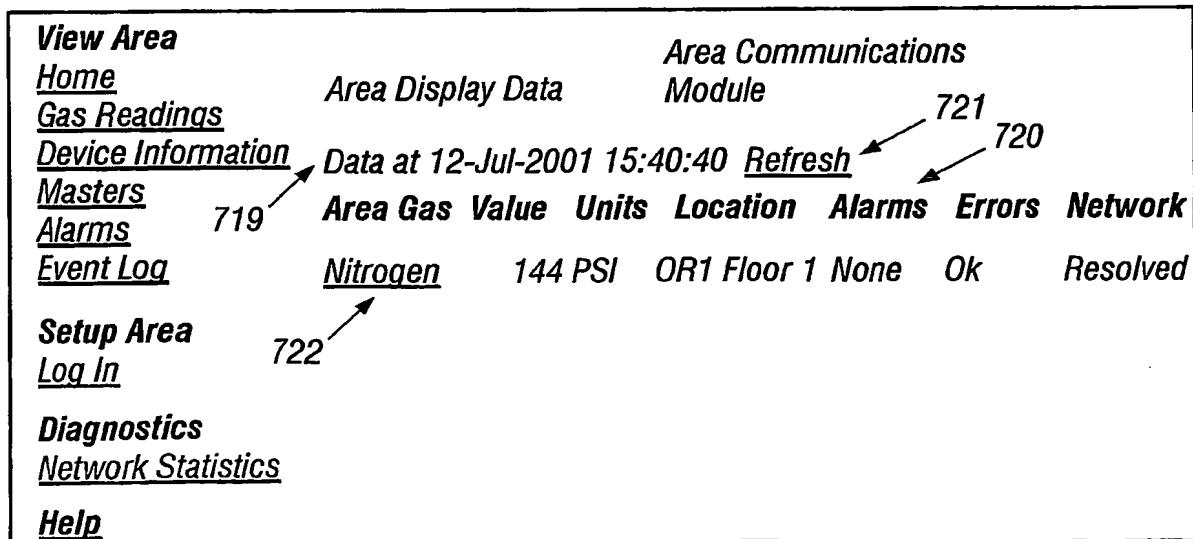


FIG. 44

# REPLACEMENT SHEET

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<i>View Area</i>		<i>Area Display Data</i>		<i>Area Communications Module</i>
<u>Home</u>				
<u>Gas Readings</u>				
<u>Device Information</u>		<i>Data at 12-Jul-2001 15:40:52</i>		725
<u>Masters</u>				
<u>Alarms</u>	726	<i>Item</i>	<i>Value</i>	
<u>Event Log</u>	728	<i>Gas Type</i>	<i>Nitrogen</i>	
		<i>Measurement</i>	<i>Pressure</i>	
<u>Setup Area</u>		<i>Value</i>	<i>144 PSI</i>	
<u>Log In</u>		<i>Alarm</i>	<i>None</i>	
<u>Diagnostics</u>		<i>Status</i>	<i>Ok</i>	
<u>Network Statistics</u>		<i>Connection</i>	<i>Resolved</i>	
<u>Help</u>		<i>Area</i>	<i>OR</i>	
		<i>Zone</i>	<i>1</i>	
		<i>Floor</i>	<i>1</i>	
	730	<i>Direction</i>		
	732	<i>Alarm High</i>	<i>190 PSI</i>	
	734	<i>Alarm Low</i>	<i>140 PSI</i>	
	736	<i>Display SN</i>	<i>4100</i>	
		<i>Transducer SN</i>	<i>1016</i>	

FIG. 45

# REPLACEMENT SHEET

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<b><i>View Area</i></b>	<b><i>Device Info</i></b>	<b><i>Area Communications Module</i></b>
<u><b>Home</b></u>		
<u><b>Gas Readings</b></u>		
<u><b>Device Information</b></u>		
<u><b>Masters</b></u>		
<u><b>Alarms</b></u>	Type:	Area Communications Module
<u><b>Event Log</b></u>	Serial Number:	1051
<u><b>Setup Area</b></u>	Model Number:	HRCM-0000-0000
<u><b>Log In</b></u>	Software Version:	0:37
<u><b>Diagnostics</b></u>	Software Build:	018
<u><b>Network Statistics</b></u>	Current Time:	12-Jul-2001 15:41:20
<u><b>Help</b></u>	Date Code:	Week 7, 2001
	Name:	Comms11
	Area:	OR
	Zone:	1
	Floor:	1
	Direction:	East
	IP Address:	192.168.1.200
	MAC Address:	00:03:aa:00:00:11

FIG. 46

738

<b><i>View Area</i></b>		
<u><b>Home</b></u>	<b>Masters</b>	<b>Area Communications Module</b>
<u><b>Gas Readings</b></u>		
<u><b>Device Information</b></u>	Refresh Data at 12-Jul-2001 15:41:38	
<u><b>Masters</b></u>	<b>Master</b>	<b>Details</b>
<u><b>Alarms</b></u>		
<u><b>Event Log</b></u>	Master10013	
<u><b>Setup Area</b></u>		742
<u><b>Log In</b></u>	744	Location
<u><b>Diagnostics</b></u>		PBX
<u><b>Network Statistics</b></u>		
<u><b>Help</b></u>		

FIG. 47

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<u><b>View Area</b></u>	<u><b>Event Area</b></u>
<u><b>Home</b></u>	<u><b>Log</b></u>
<u><b>Gas Readings</b></u>	<u><b>Communications</b></u>
<u><b>Device Information</b></u>	<u><b>Module</b></u>
<u><b>Masters</b></u>	
<u><b>Alarms</b></u>	
<u><b>Event Log</b></u>	<u><b>Refresh</b></u> Data at 12-Jul-2001 15:42:05
<u><b>Setup Area</b></u>	To save as a file, right click here and select 'Save Target As...'
<u><b>Log In</b></u>	
<u><b>Diagnostics</b></u>	
<u><b>Network Statistics</b></u>	
<u><b>Help</b></u>	
	748
	750
	752
	756
	10-Jul-2001 12:02:11 - Area Display lost SN=5001
	10-Jul-2001 12:04:08 - Area Display lost S 2-Jul-2001 09:07:44 - Power-up
	12-Jul-2001 09:07:44 - Checksum INCORRECT
	12-Jul-2001 09:37:48 - Power-up
	12-Jul-2001 09:37:48 - Checksum Ok
	12-Jul-2001 09:39:34 - Power-up
	12-Jul-2001 09:39:34 - Checksum Ok
	12-Jul-2001 09:41:59 - Power-up
	12-Jul-2001 09:41:59 - Checksum Ok
	12-Jul-2001 09:45:20 - Power-up
	12-Jul-2001 09:45:20 - Checksum Ok
	12-Jul-2001 09:50:02 - Power-up
	12-Jul-2001 09:50:02 - Checksum Ok
	12-Jul-2001 09:51:49 - Power-up
	12-Jul-2001 09:51:49 - Checksum Ok
	12-Jul-2001 09:54:05 - Power-up
	12-Jul-2001 09:54:05 - Checksum Ok
	12-Jul-2001 10:00:50 - Power-up
	12-Jul-2001 10:00:50 - Checksum Ok
	12-Jul-2001 10:04:08 - Power-up
	12-Jul-2001 10:04:08 - Checksum Ok
	12-Jul-2001 10:08:20 - Power-up
	12-Jul-2001 10:08:20 - Checksum Ok
	12-Jul-2001 10:10:28 - Power-up
	12-Jul-2001 10:10:28 - Checksum Ok
	12-Jul-2001 10:13:15 - Power-up
	12-Jul-2001 10:13:15 - Checksum Ok
	12-Jul-2001 10:18:13 - Power-up
	12-Jul-2001 10:18:13 - Checksum Ok
	12-Jul-2001 10:20:04 - Power-up
	12-Jul-2001 10:20:04 - Checksum Ok
	12-Jul-2001 10:22:04 - Power-up
	12-Jul-2001 10:22:04 - Checksum Ok

**FIG. 48**

## REPLACEMENT SHEET

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<b>View Area</b>	<b>Login</b>	<b>Area Communications Module</b>
<u>Home</u>		
<u>Gas Readings</u>		
<u>Device Information</u>	These entries are case sensitive	
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Log In</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>		

User Name  760  
Password  762  
  
 764

758 FIG. 49

766

<b>View Area</b>	<b>Login Status</b>	<b>Area Communications Module</b>
<u>Home</u>	770	
<u>Gas Readings</u>		
<u>Device Information</u>	You are logged in as new	
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>	772	
<u>Setup Device</u>	774	
<u>Setup Network</u>		
<u>Set Clock</u>	776	778
<u>Administratate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>	780	
<b>Diagnostics</b>	782	
<u>Network Statistics</u>		
<u>Help</u>		

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786

<b>View Area</b>	<b>Device Settings</b>	<b>Area Communications Module</b>
<u>Home</u>	788	
<u>Gas Readings</u>		
<u>Device Information</u>	790	
<u>Masters</u>	<u>Device Name</u>	<input type="text" value="Comms11"/>
<u>Alarms</u>	<u>Location Area</u>	<input style="width: 20px;" type="text" value="OR"/> 791
<u>Event Log</u>	<u>Location Zone</u>	<input type="text" value="1"/> 796
<b>Setup Area</b>	<u>Location Floor</u>	<input type="text" value="1"/> 792
<u>Setup Device</u>	<u>Location Direction</u>	<input style="width: 20px;" type="text" value="East"/> 795
<u>Setup Network</u>	794	
<u>Set Clock</u>		
<u>Administratate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>	<input type="button" value="Submit"/> 798	<input type="button" value="Reset"/> 800
<u>Network Statistics</u>		
<u>Help</u>		

FIG. 51

810

<b>View Area</b>	<b>Device</b>	<b>Area Communications</b>
<u>Home</u>	<u>Setup</u>	<u>Module</u>
<u>Gas Readings</u>	<u>Results</u>	
<u>Device Information</u>	Changes to device setup where accepted	
<u>Masters</u>	812	
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administratate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<u>Help</u>		

FIG. 52

## REPLACEMENT SHEET

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<b><u>View Area</u></b> <u>Home</u> 816 <u>Gas Readings</u> <u>Device Information</u>	<b><u>Network Settings</u></b> <u>Module</u> <b>Current Settings: IP address: 192.168.1.200      Subnet mask: 255.255.255.0</b>	<b><u>Area Communications</u></b> <b><u>Module</u></b>	
<p><b><u>Masters</u></b></p> <p><b><u>Alarms</u></b></p> <p><b><u>Event Log</u></b> 818 → <b>IP Addressing</b>  <i>Choose the method for this hosts IP address assignment.</i></p> <p><b><u>Setup Area</u></b> 820 → <input type="radio"/> Try DHCP server, then try Auto IP, finally use fixed IP address</p> <p><b><u>Setup Device</u></b> 822 → <input type="radio"/> Try DHCP server, then use fixed IP address</p> <p><b><u>Setup Network</u></b> 824 → <input type="radio"/> Try AutoIP, then use fixed IP address</p> <p><b><u>Set Clock</u></b></p> <p><b><u>Administrative Users</u></b></p> <p><b><u>Update Flash</u></b></p> <p><b><u>Log Out</u></b></p> <p><b><u>Diagnostics</u></b></p> <p><b><u>Network Statistics</u></b></p> <p><b><u>Help</u></b></p>			
<p><b>816</b> → <b>818</b></p> <p><b>820</b> → <b>822</b></p> <p><b>822</b> → <b>824</b></p> <p><b>824</b> → <b>826</b></p> <p><b>826</b> ← <b>828</b></p> <p><b>828</b> ← <b>830</b></p> <p><b>830</b> ← <b>832</b></p> <p><b>832</b> → <input checked="" type="checkbox"/> <b>834</b></p> <p><b>834</b> → <b>836</b></p>			
<input type="button" value="Submit"/> <input type="button" value="Reset"/> ← <b>836</b>			

**FIG. 53**

814 →

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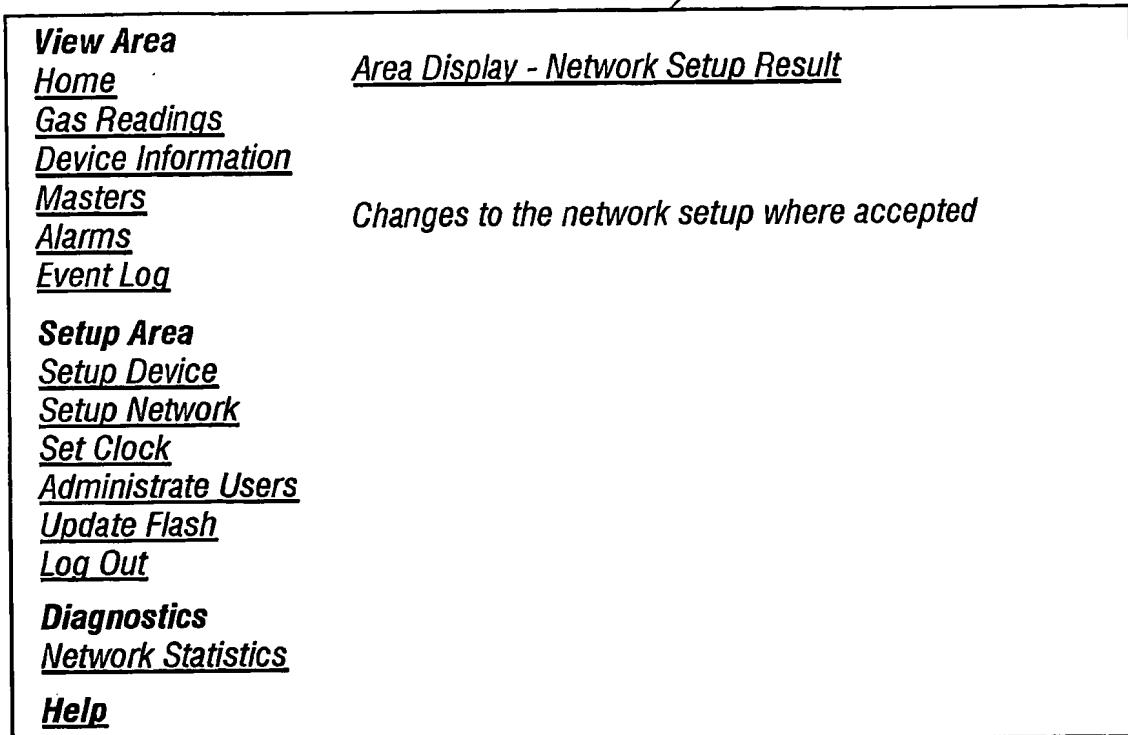


FIG. 54

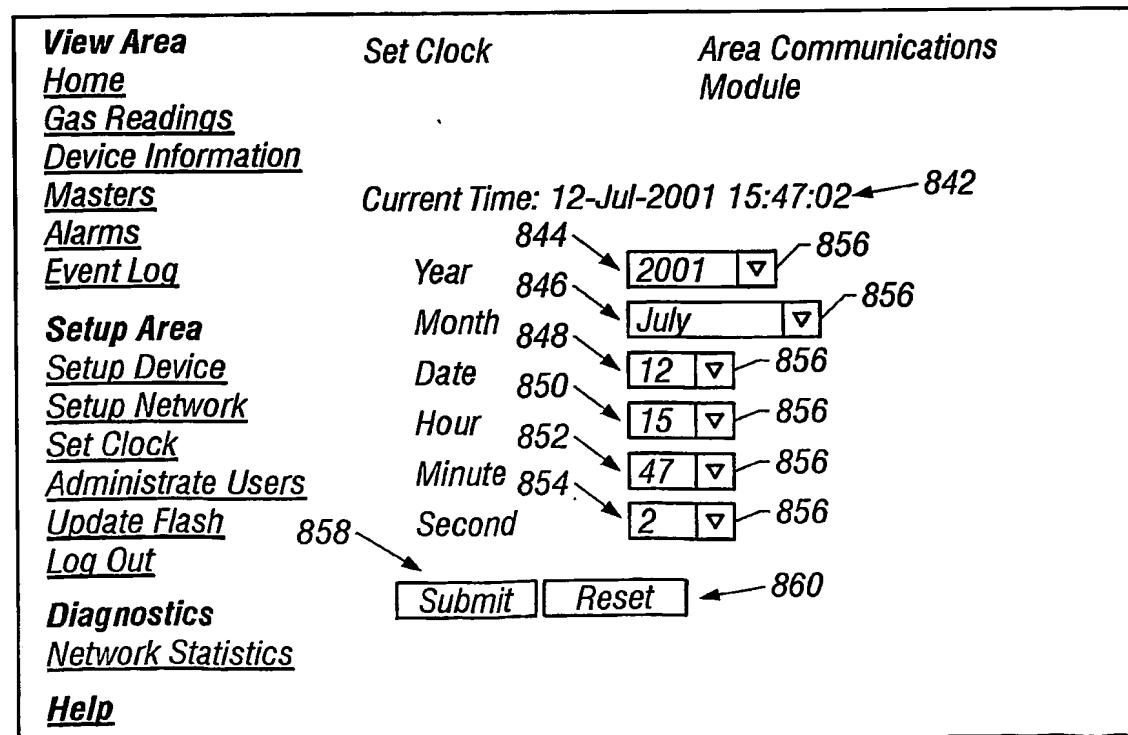


FIG. 55

840

## REPLACEMENT SHEET

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862

<b>View Area</b>	<u><a href="#">Area Comms - Change Result</a></u>
<u><a href="#">Home</a></u>	
<u><a href="#">Gas Readings</a></u>	
<u><a href="#">Device Information</a></u>	
<u><a href="#">Masters</a></u>	
<u><a href="#">Alarms</a></u>	
<u><a href="#">Event Log</a></u>	
 <b>Setup Area</b>	
<u><a href="#">Setup Device</a></u>	
<u><a href="#">Setup Network</a></u>	
<u><a href="#">Set Clock</a></u>	
<u><a href="#">Administratate Users</a></u>	
<u><a href="#">Update Flash</a></u>	
<u><a href="#">Log Out</a></u>	
 <b>Diagnostics</b>	
<u><a href="#">Network Statistics</a></u>	
<u><a href="#">Help</a></u>	

864

Changes were accepted

The clock is now set to 12-Jul-2001 15:47:02

FIG. 56

<b>View Area</b>	User	Area Communications
<u><a href="#">Home</a></u>	Administration	Module
<u><a href="#">Gas Readings</a></u>		
<u><a href="#">Device Information</a></u>		
<u><a href="#">Masters</a></u>		
<u><a href="#">Alarms</a></u>		
<u><a href="#">Event Log</a></u>		
 <b>Setup Area</b>		
<u><a href="#">Setup Device</a></u>		
<u><a href="#">Setup Network</a></u>		
<u><a href="#">Set Clock</a></u>		
<u><a href="#">Administratate Users</a></u>		
<u><a href="#">Update Flash</a></u>		
<u><a href="#">Log Out</a></u>		
 <b>Diagnostics</b>		
<u><a href="#">Network Statistics</a></u>		
<u><a href="#">Help</a></u>		

868

These entries are case sensitive

User Name

User 1 Name  872

User 2 Name  873

User 3 Name  874

870

Submit

Reset

872

874

866

FIG. 57

## REPLACEMENT SHEET

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876

<b>View Area</b>	<b>Change User Info</b>	<b>Area Communications Module</b>
<u>Home</u>		
<u>Gas Readings</u>	<u>Result</u>	
<u>Device Information</u>		
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administratate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<b>Help</b>		

FIG. 58

<b>View Area</b>	<b>Flash Download</b>	<b>Area Communications Module</b>
<u>Home</u>		
<u>Gas Readings</u>		
<u>Device Information</u>		
<u>Masters</u>		
<u>Alarms</u>		
<u>Event Log</u>		
<b>Setup Area</b>		
<u>Setup Device</u>		
<u>Setup Network</u>		
<u>Set Clock</u>		
<u>Administratate Users</u>		
<u>Update Flash</u>		
<u>Log Out</u>		
<b>Diagnostics</b>		
<u>Network Statistics</u>		
<b>Help</b>		

880

882

884

This device has updateable FLASH program memory. The memory can be updated with a new version of application software using a special program on your computer. Once the device enters the FLASH programming mode, new software must be downloaded from a PC.

The download process must be completed successfully before this device will work correctly again.

Click here to enter the FLASH programming mode

878

FIG. 59

## REPLACEMENT SHEET

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<b><i>View Area</i></b>		
<u><a href="#">Home</a></u>	<u><a href="#">Confirm</a></u>	<u><a href="#">Area Communications</a></u>
<u><a href="#">Gas Readings</a></u>	<u><a href="#">Download</a></u>	<u><a href="#">Module</a></u>
<u><a href="#">Device Information</a></u>		
<u><a href="#">Masters</a></u>		
<u><a href="#">Alarms</a></u>		
<u><a href="#">Event Log</a></u>		
<b><i>Setup Area</i></b>		
<u><a href="#">Setup Device</a></u>		
<u><a href="#">Setup Network</a></u>		
<u><a href="#">Set Clock</a></u>		
<u><a href="#">Administratate Users</a></u>		
<u><a href="#">Update Flash</a></u>	<u><a href="#">Click here to confirm entering FLASH programming mode</a></u>	
<u><a href="#">Log Out</a></u>		
<b><i>Diagnostics</i></b>		
<u><a href="#">Network Statistics</a></u>		
<u><a href="#">Help</a></u>		

888

FIG. 60

# REPLACEMENT SHEET

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890		
<b><i>View Area</i></b>	<b>Communications</b>	<b>Area Communications</b>
<u>Home</u>	Statistics	Module
<u>Gas Readings</u>	<b>Ethernet Refresh</b>	896
<u>Device Information</u>	IP Address	192.168.1.200
<u>Masters</u>	Subnet	255.255.255.0
<u>Alarms</u>	Gateway	192.168.1.1
<u>Event Log</u>	Fixed IP Address	0.0.0.0
<b><i>Setup Area</i></b>	Fixed Subnet	0.0.0.0
<u>Setup Device</u>	Fixed Gateway	0.0.0.0
<u>Setup Network</u>	Mac Address	00:03:aa:00:00:11
<u>Set Clock</u>	Receives	662
<u>Administratate Users</u>	Unicasts	590
<u>Update Flash</u>	Multicasts	0
<u>Log Out</u>	Broadcasts	72
<b><i>Diagnostics</i></b>	Rx Errors	0
<u>Network Statistics</u>	Rx Missed	0
<u>Help</u>	Rx CRC Errors	0
	Rx Drops	0
	Transmits	705
	Buffer Defers	0
	Tx Errors	0
	Tx Collisions	0
	Tx Coll. Overflow	0
	Tx FILO Errors	0
	Traffic Backoffs	0
892		
894		
	<b>Serial Communications</b>	
	Receives	11591
	Transmits	11627
	Bad CRC	0
	Missed End	0
	Packet Too Long	0

**FIG. 61**

**REPLACEMENT SHEET**

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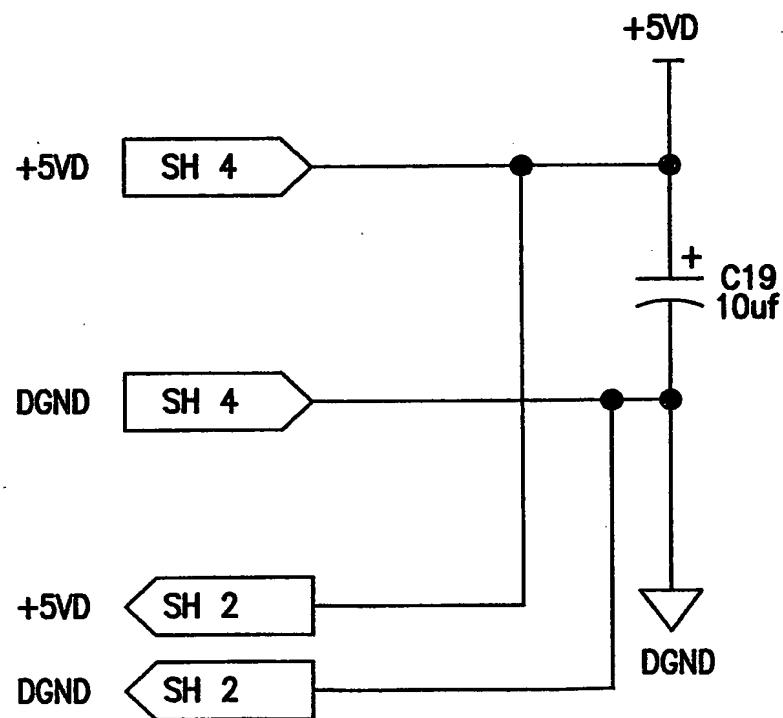
**FIG. 62**

FIG. 62A	FIG. 62D	FIG. 62G	FIG. 62J	FIG. 62M	FIG. 62P	FIG. 62S
FIG. 62B	FIG. 62E	FIG. 62H	FIG. 62K	FIG. 62N	FIG. 62Q	FIG. 62T
FIG. 62C	FIG. 62F	FIG. 62I	FIG. 62L	FIG. 62O	FIG. 62R	FIG. 62U

REPLACEMENT SHEET

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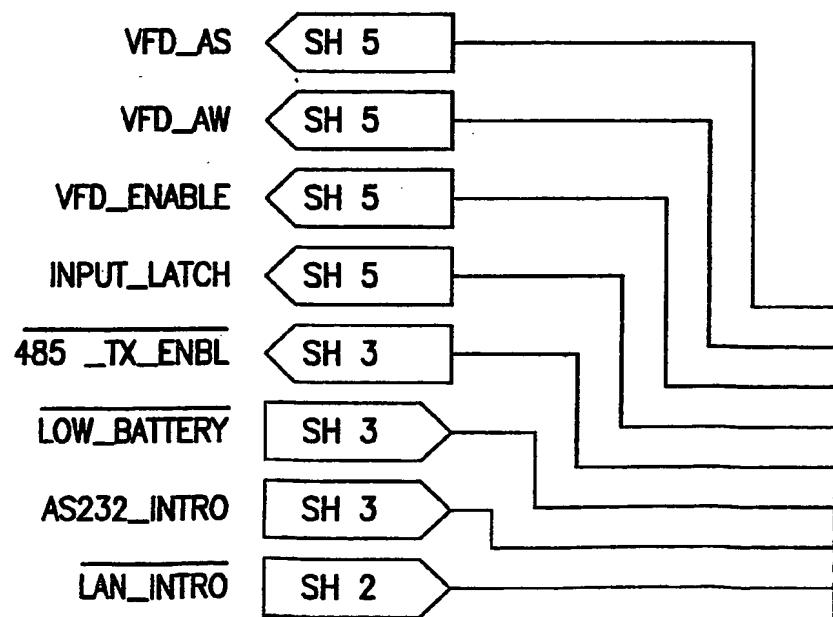
FIG. 62A



REPLACEMENT SHEET

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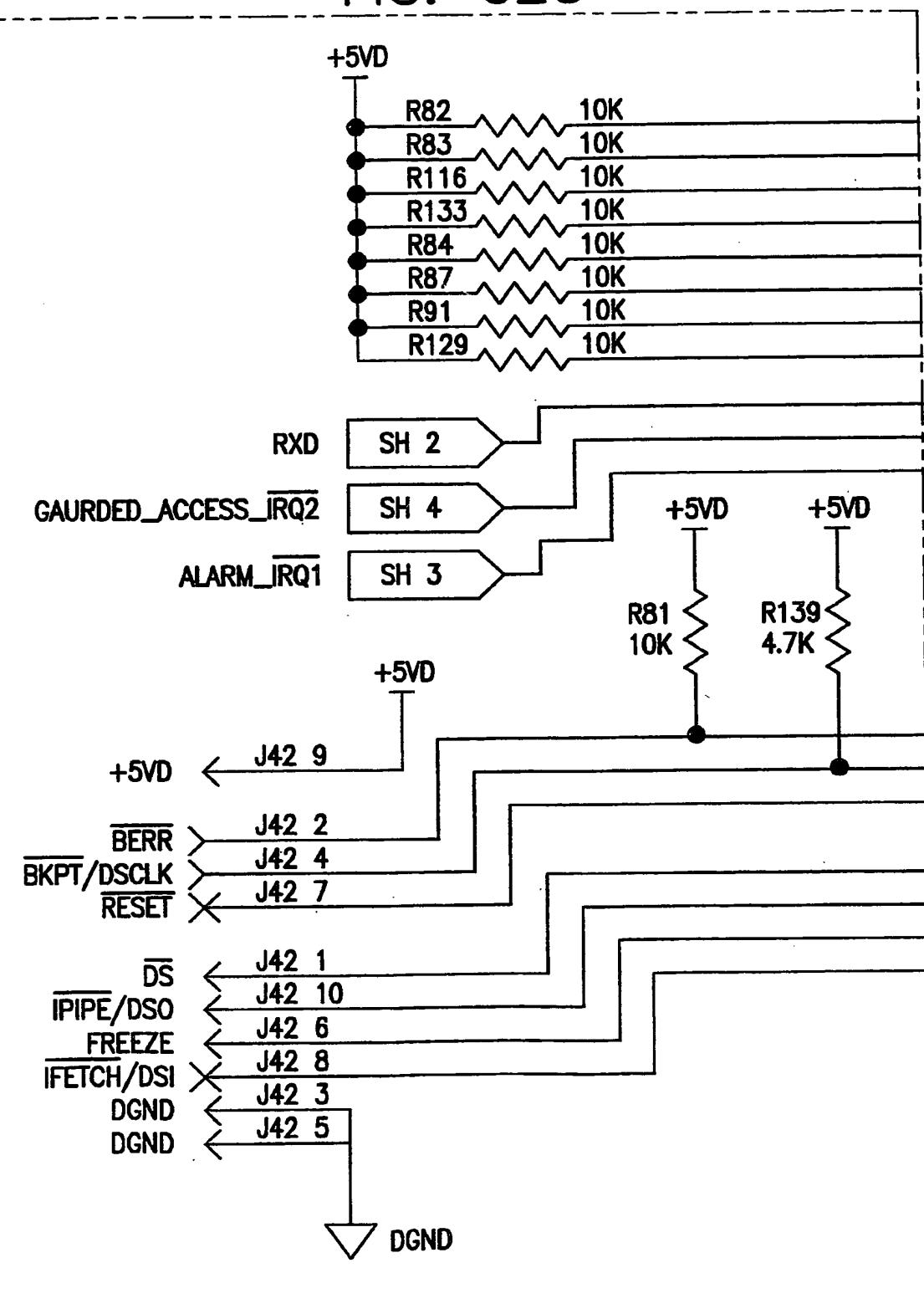
FIG. 62B



REPLACEMENT SHEET

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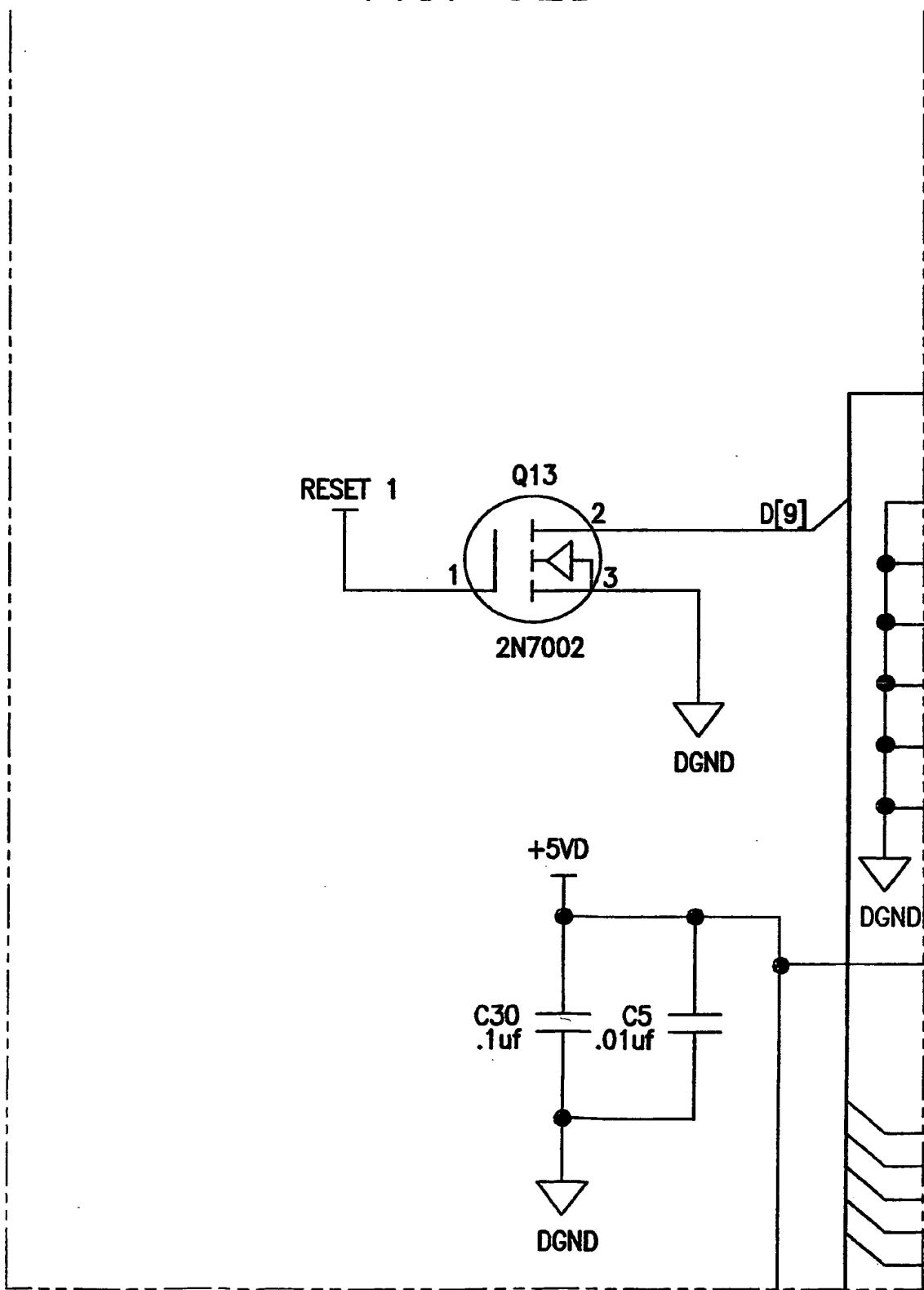
FIG. 62C



REPLACEMENT SHEET

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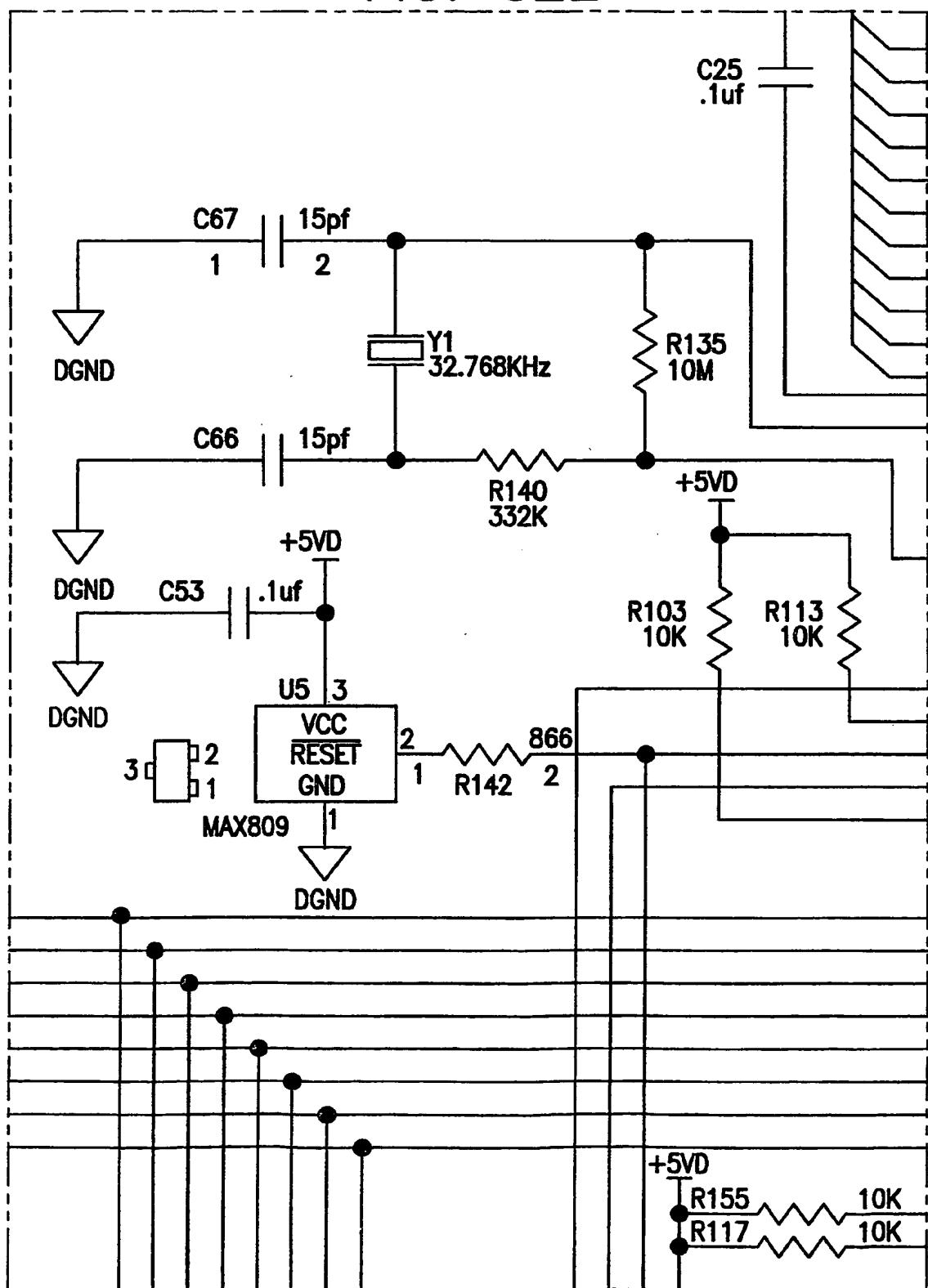
FIG. 62D



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FIG. 62E



REPLACEMENT SHEET

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FIG. 62F

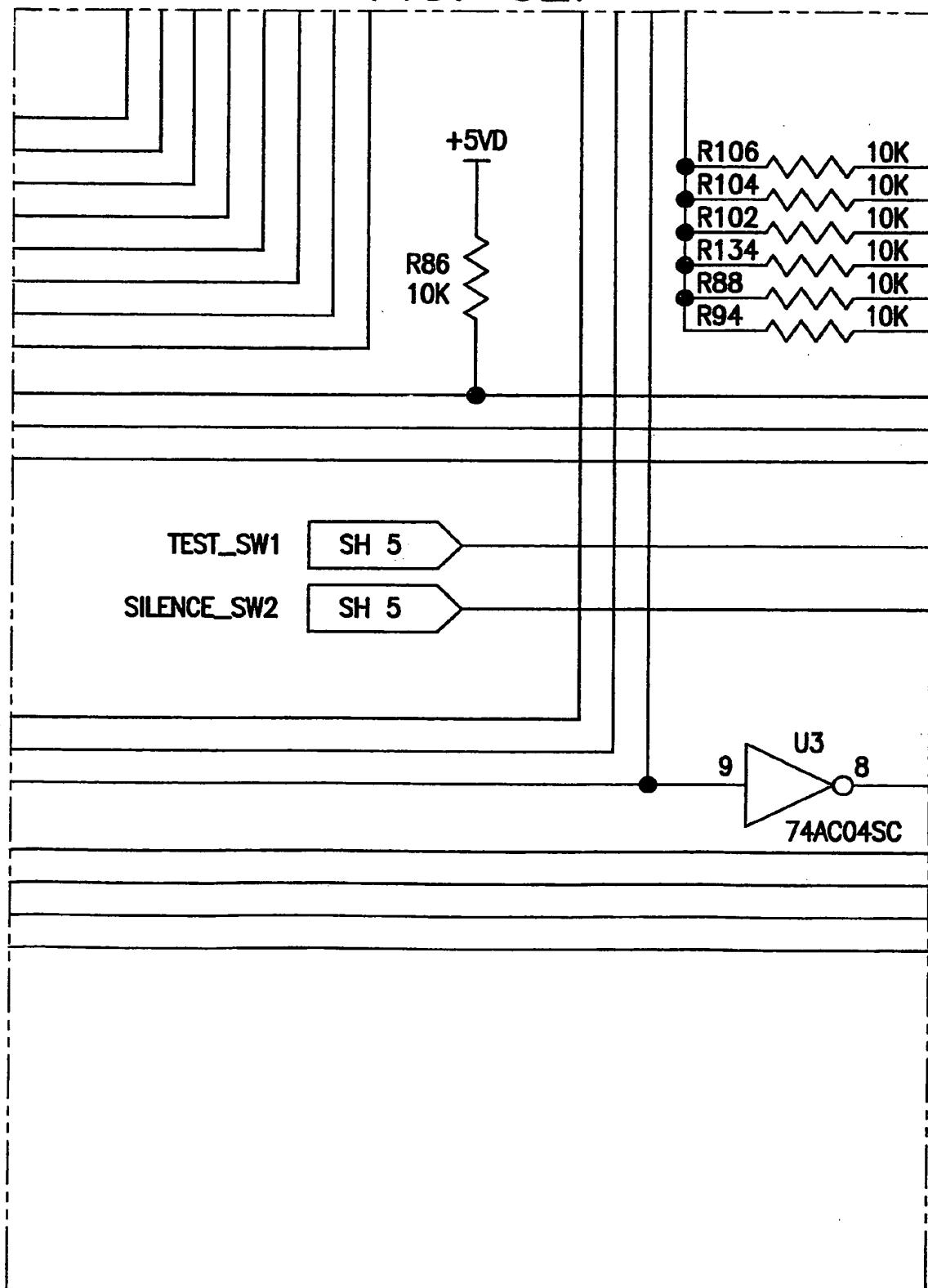


FIG. 62G

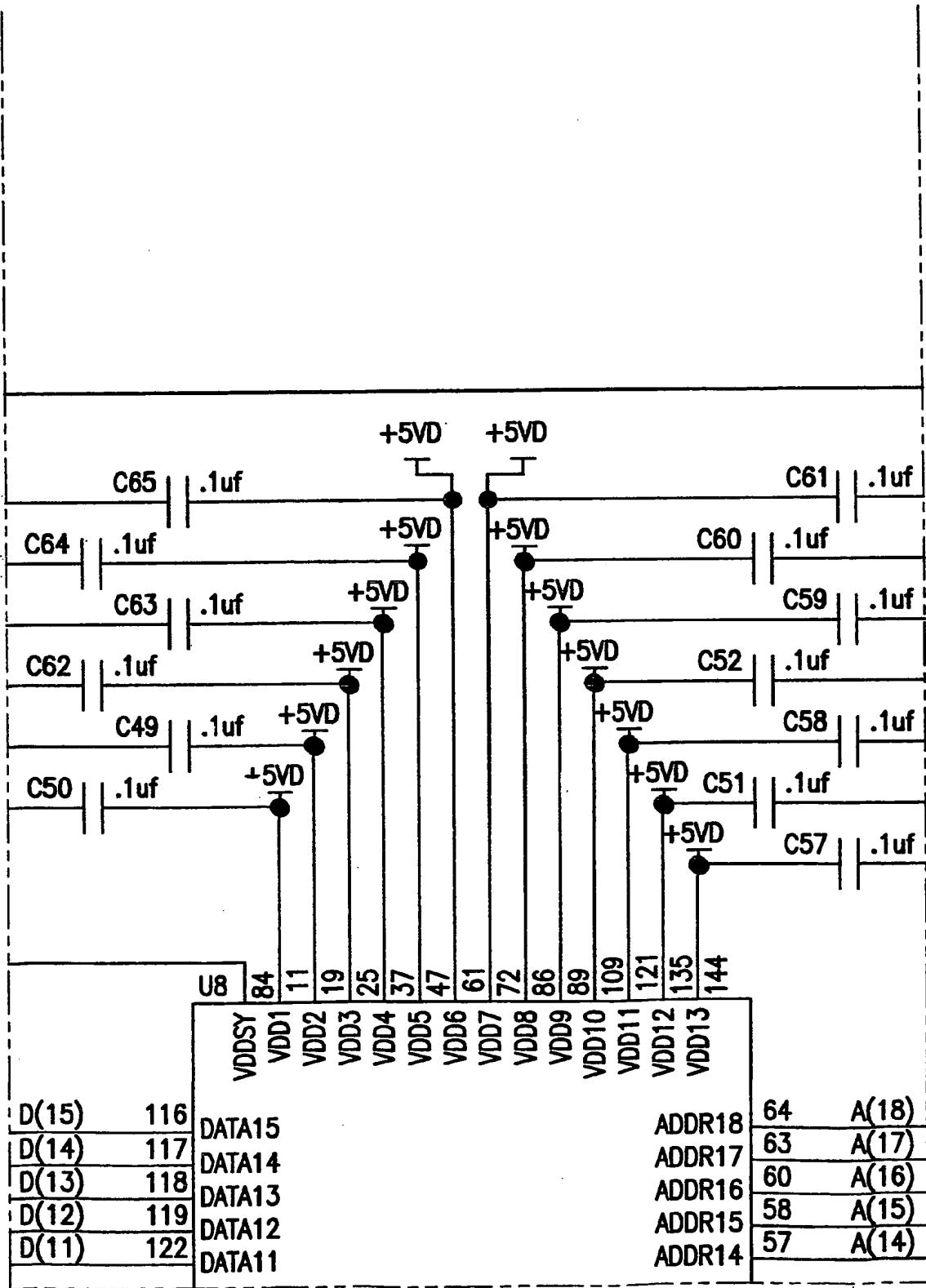
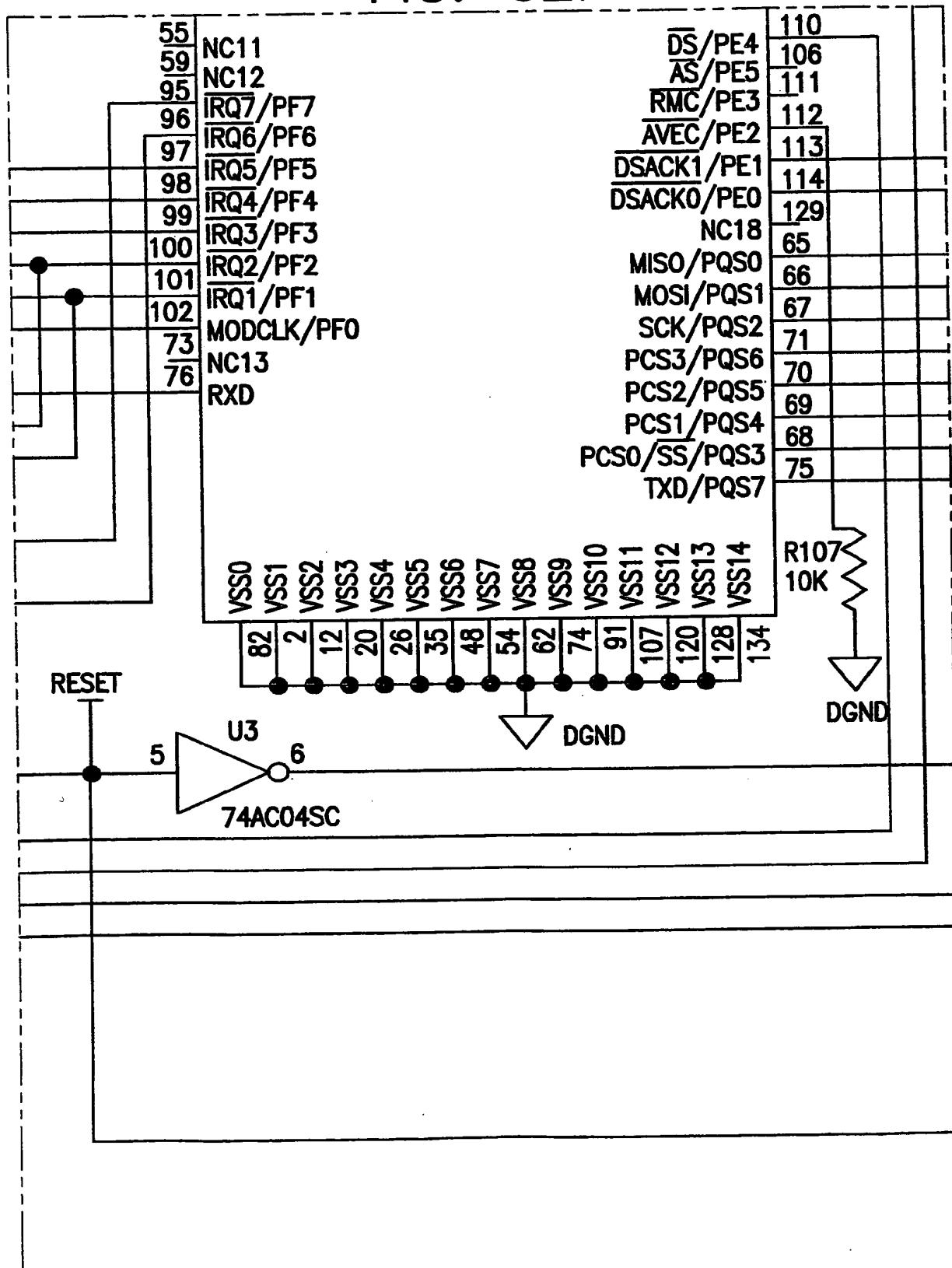


FIG. 62H

D(10)	124	DATA10	56	A(13)
D(9)	125	DATA9	52	A(12)
D(8)	127	DATA8	51	A(11)
D(7)	130	DATA7	50	A(10)
D(6)	131	DATA6	49	A(9)
D(5)	132	DATA5	46	A(8)
D(4)	133	DATA4	45	A(7)
D(3)	136	DATA3	44	A(6)
D(2)	137	DATA2	43	A(5)
D(1)	138	DATA1	42	A(4)
D(0)	139	DATA0	41	A(3)
	1	NC1	40	A(2)
	16	NC2	39	A(1)
	17	NC3	115	A(0)
	87	XFC	88	A(19)
	85	EXTAL	NC14	
	83	XTAL	10	
	18	NC4	9	
	21	NC5	8	
	27	NC6	7	
	94	BERR	6	
	93	HALT	5	
	92	RESET	4	
	79	BKPT/DSCLK	3	
	80	TSC	CS5/FC2/PC2	108
	34	NC7	CS4/FC1/PC1	NC15
	36	NC8	CS3/FC0/PC0	143
	23	IC4/OC5/OC1/PGP7	NC15	
	24	OC4/OC1/PGP6	BGACK/CS2	142
	28	OC3/OC1/PGP5	BG/CS1	141
	29	OC2/OC1/PGP4	BH/CS0	140
	30	OC1/PGP3	CSB00T	123
	31	IC3/PGP2	NC16	103
	32	IC2/PGP1	R/W	90
	33	IC1/PGP0	CLKOUT	15
	38	NC9	PWMA	14
	53	NC10	PWMB	81
	22	PAI	FREEZE/QOUT	77
	13	PCLK	IPIPE/DS0	78
			IFETCH/DSI	126
			NC17	104
			SIZ1/PE7	105
			SIZ0/PE6	

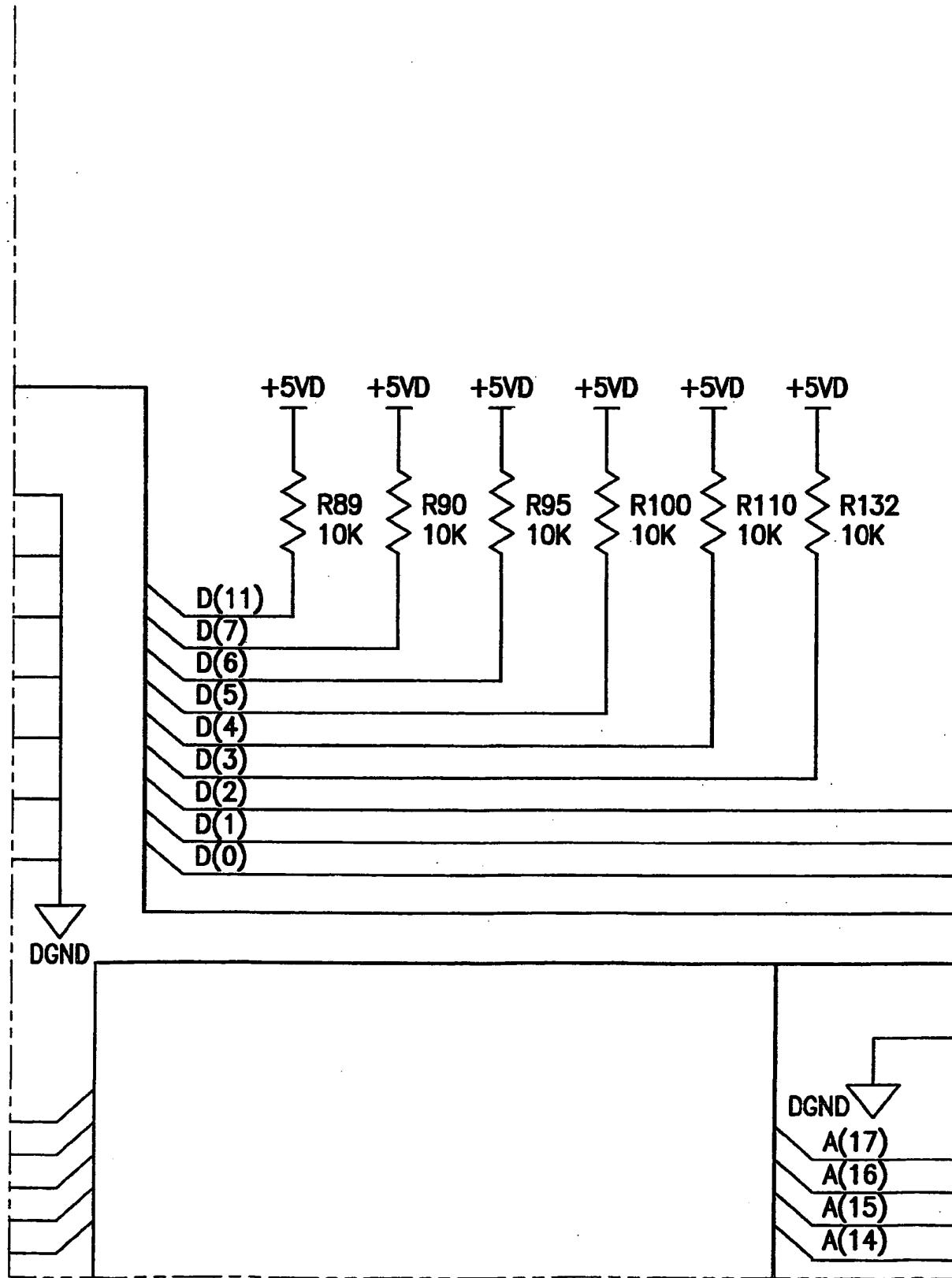
FIG. 621



REPLACEMENT SHEET

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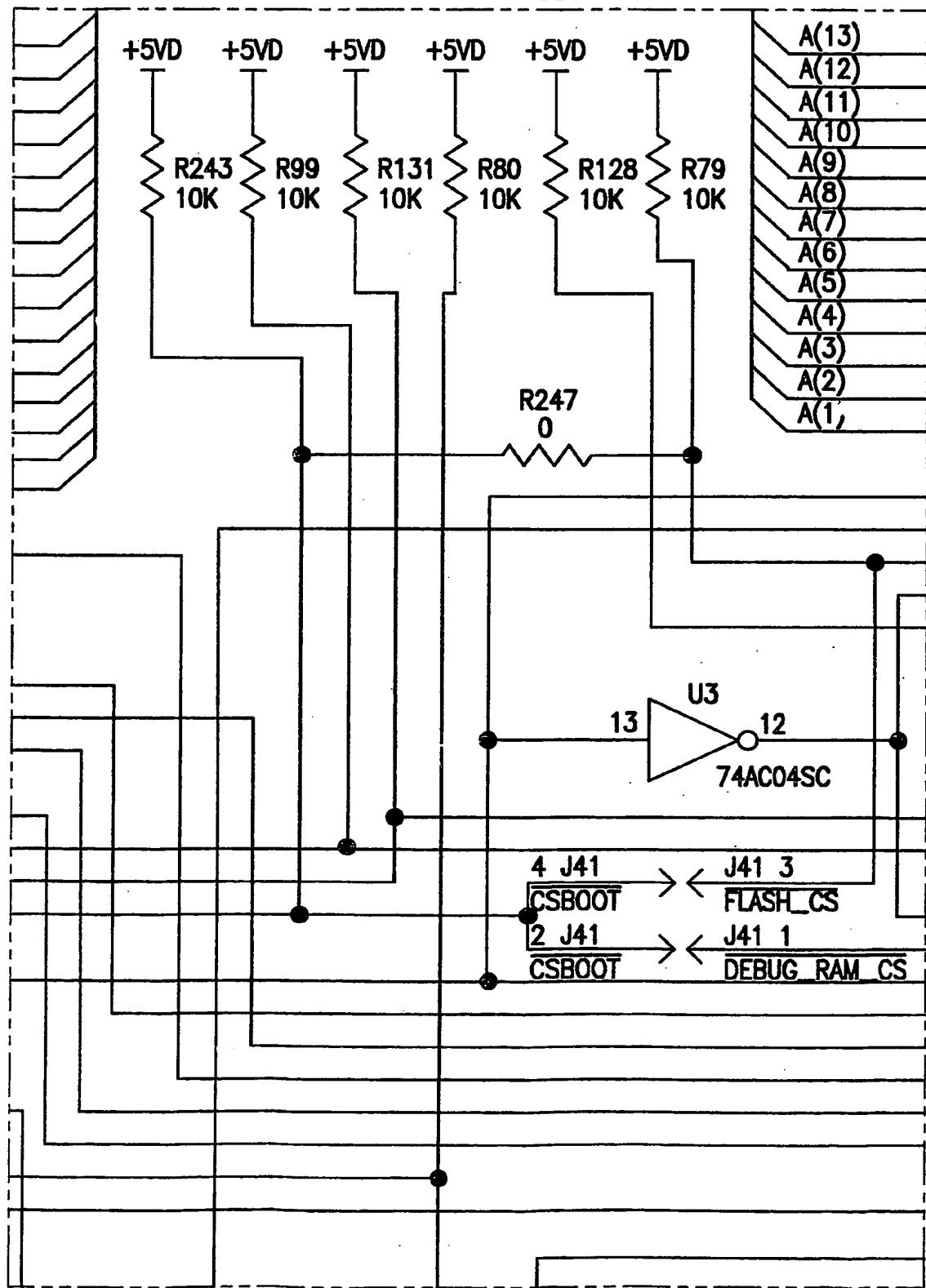
FIG. 62J



## REPLACEMENT SHEET

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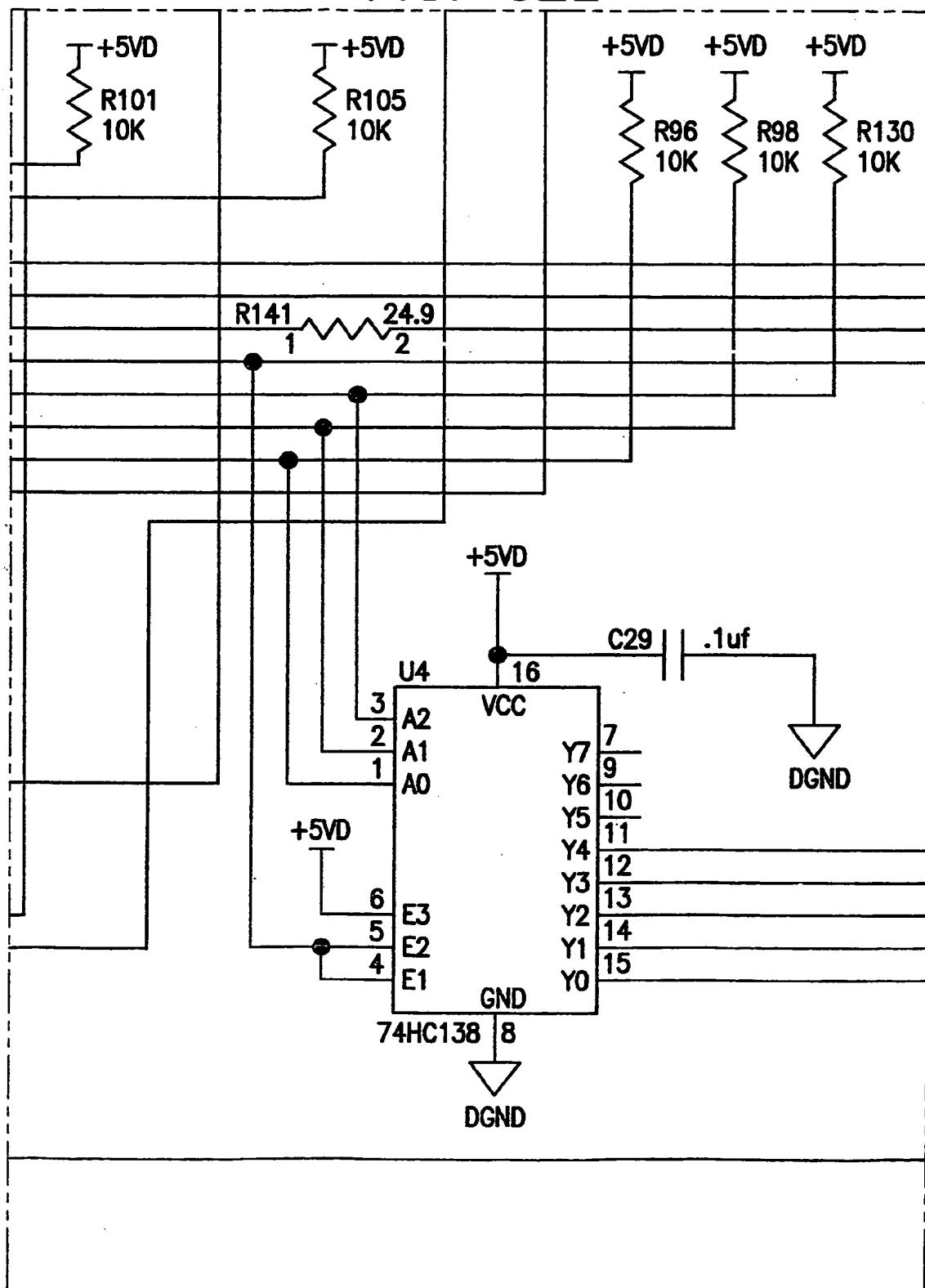
FIG. 62K



## **REPLACEMENT SHEET**

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FIG. 62L



REPLACEMENT SHEET

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FIG. 62M

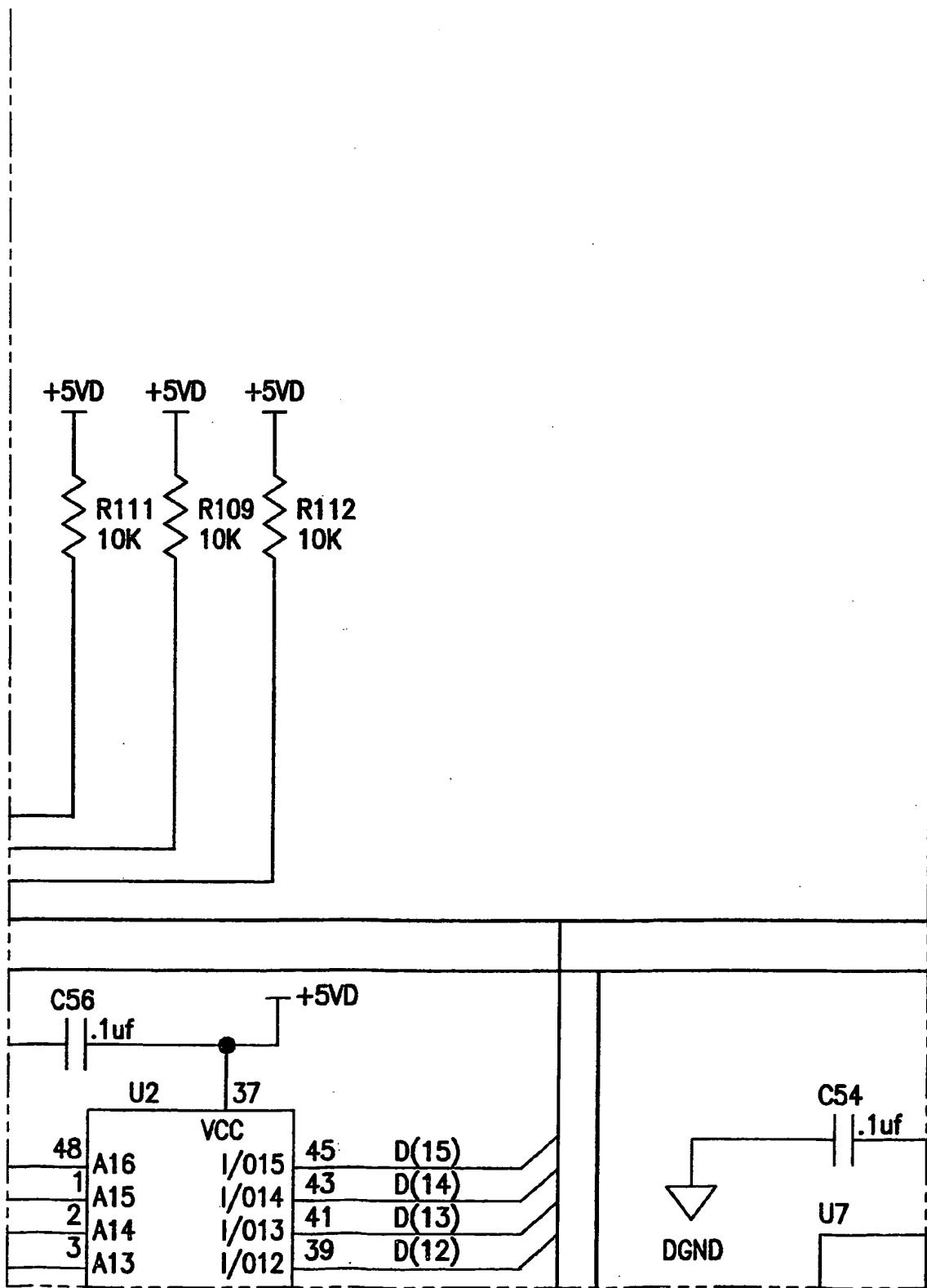


FIG. 62N

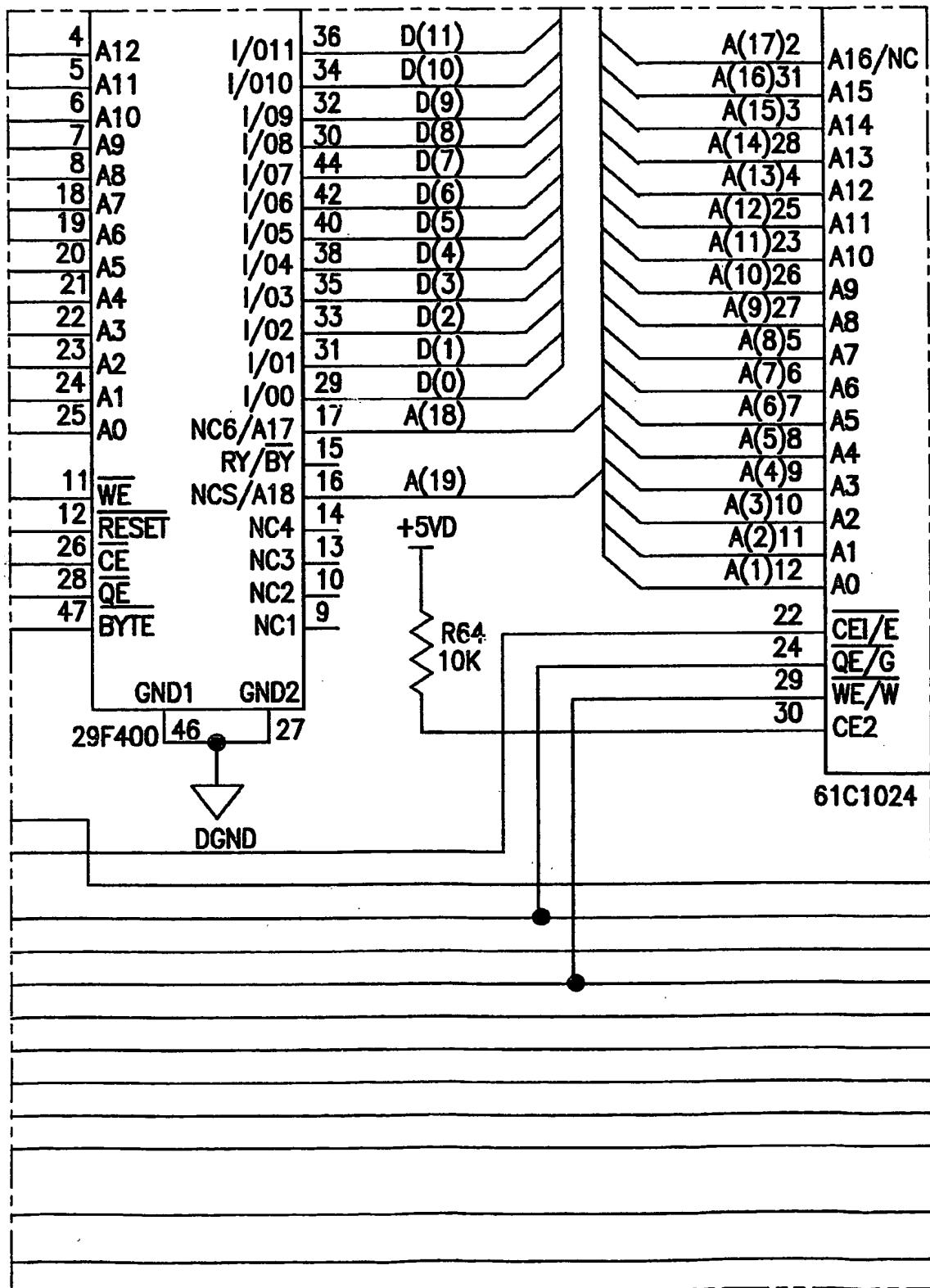
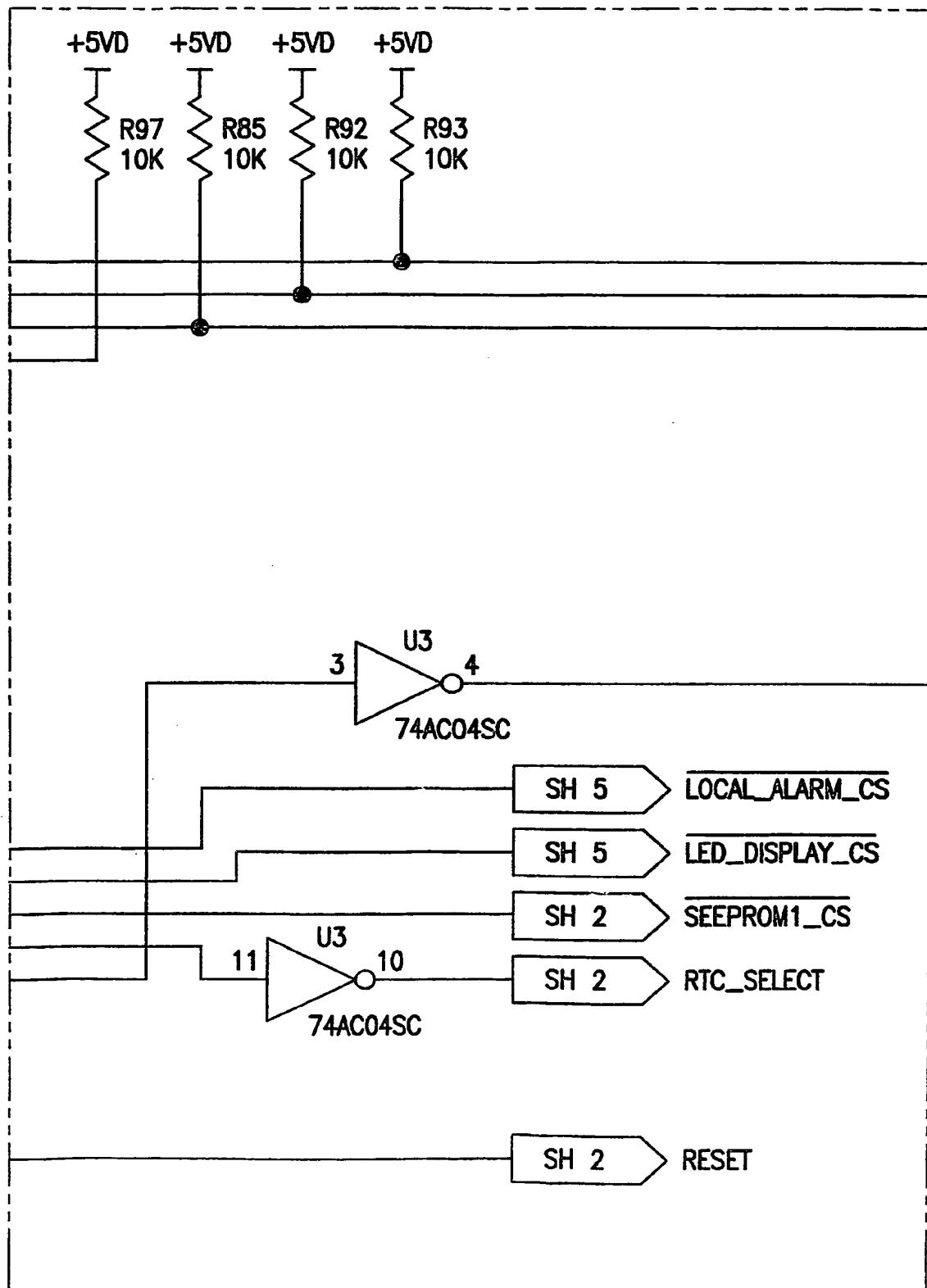


FIG. 620



REPLACEMENT SHEET

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FIG. 62P

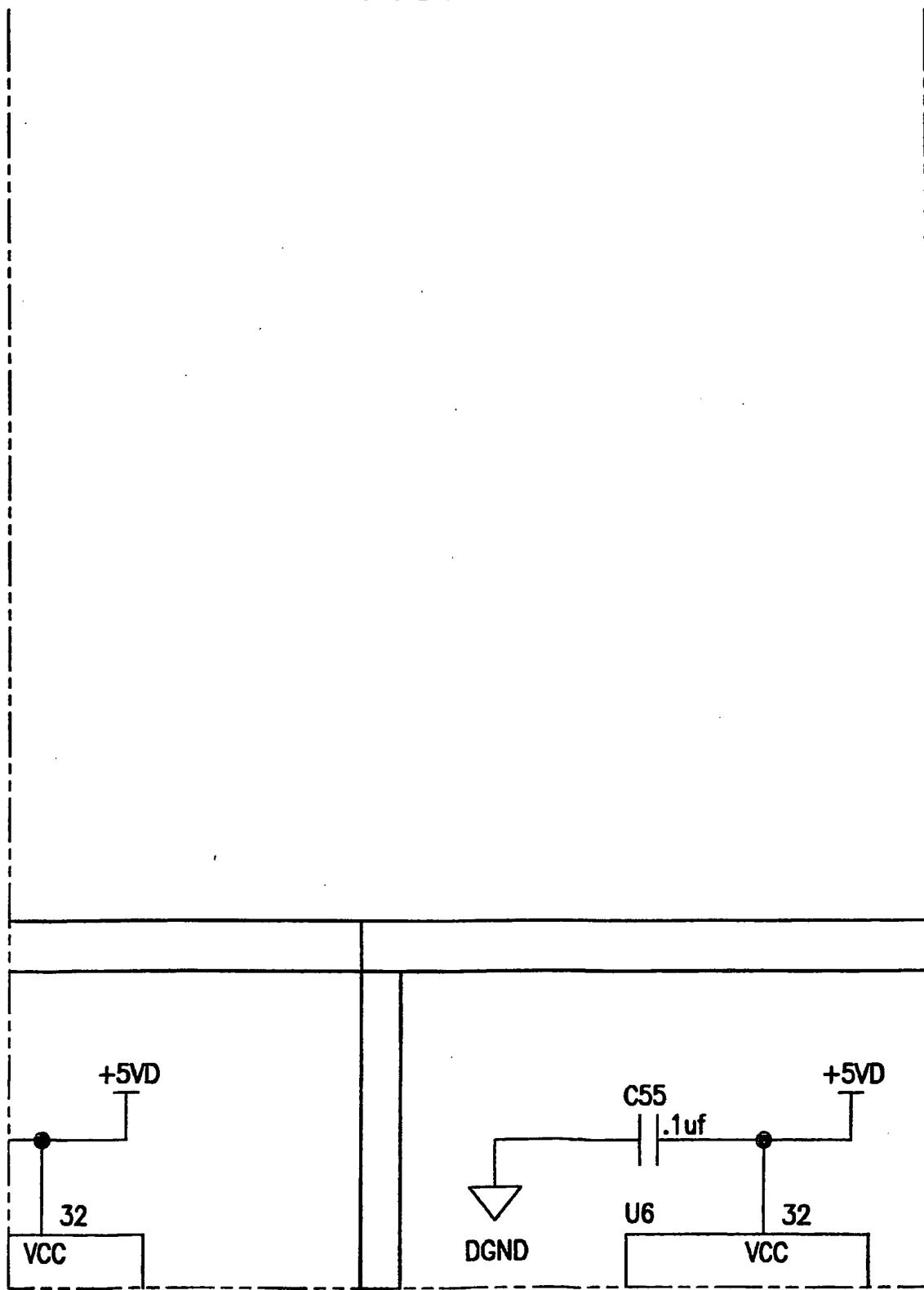


FIG. 62Q

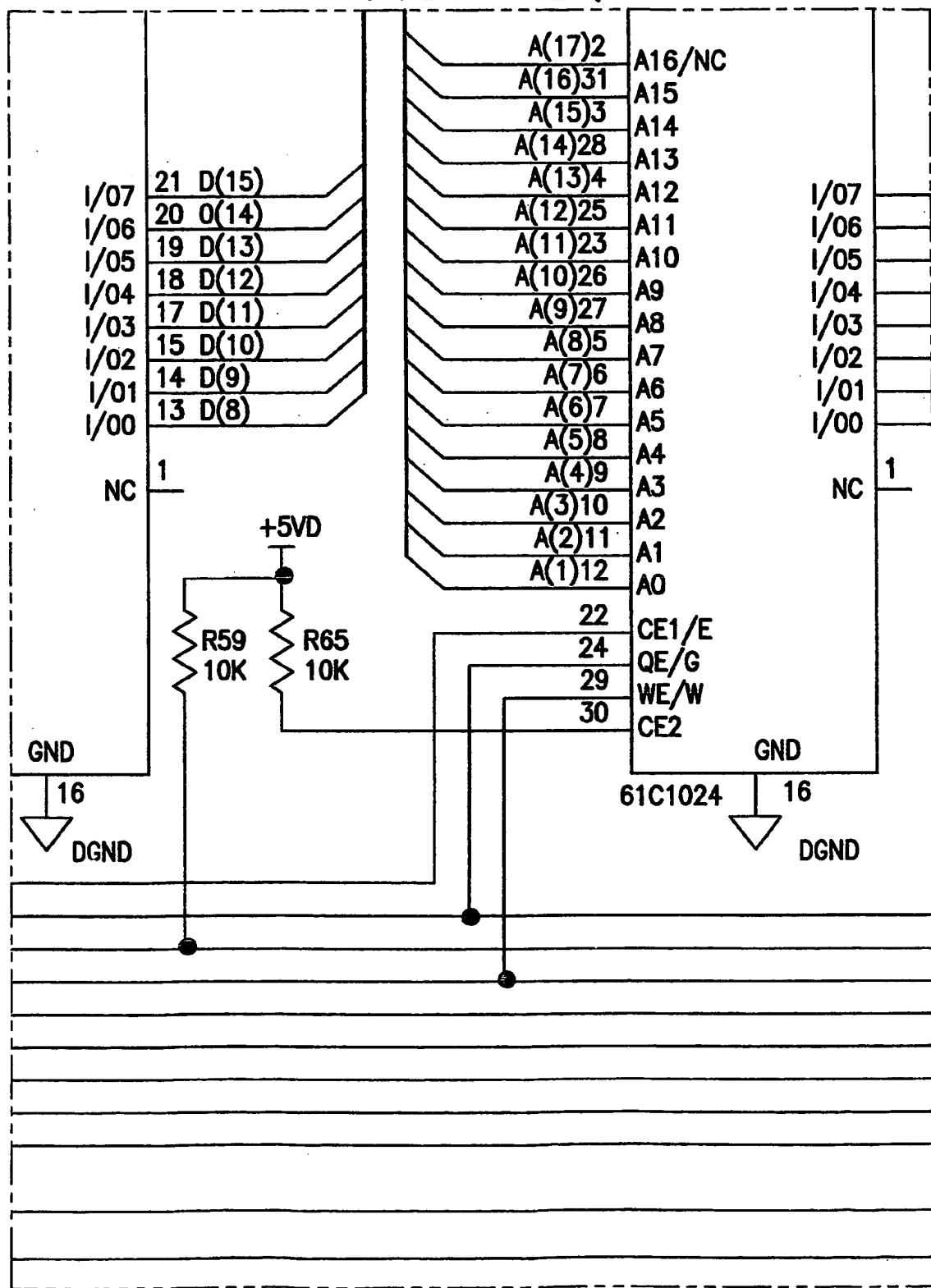
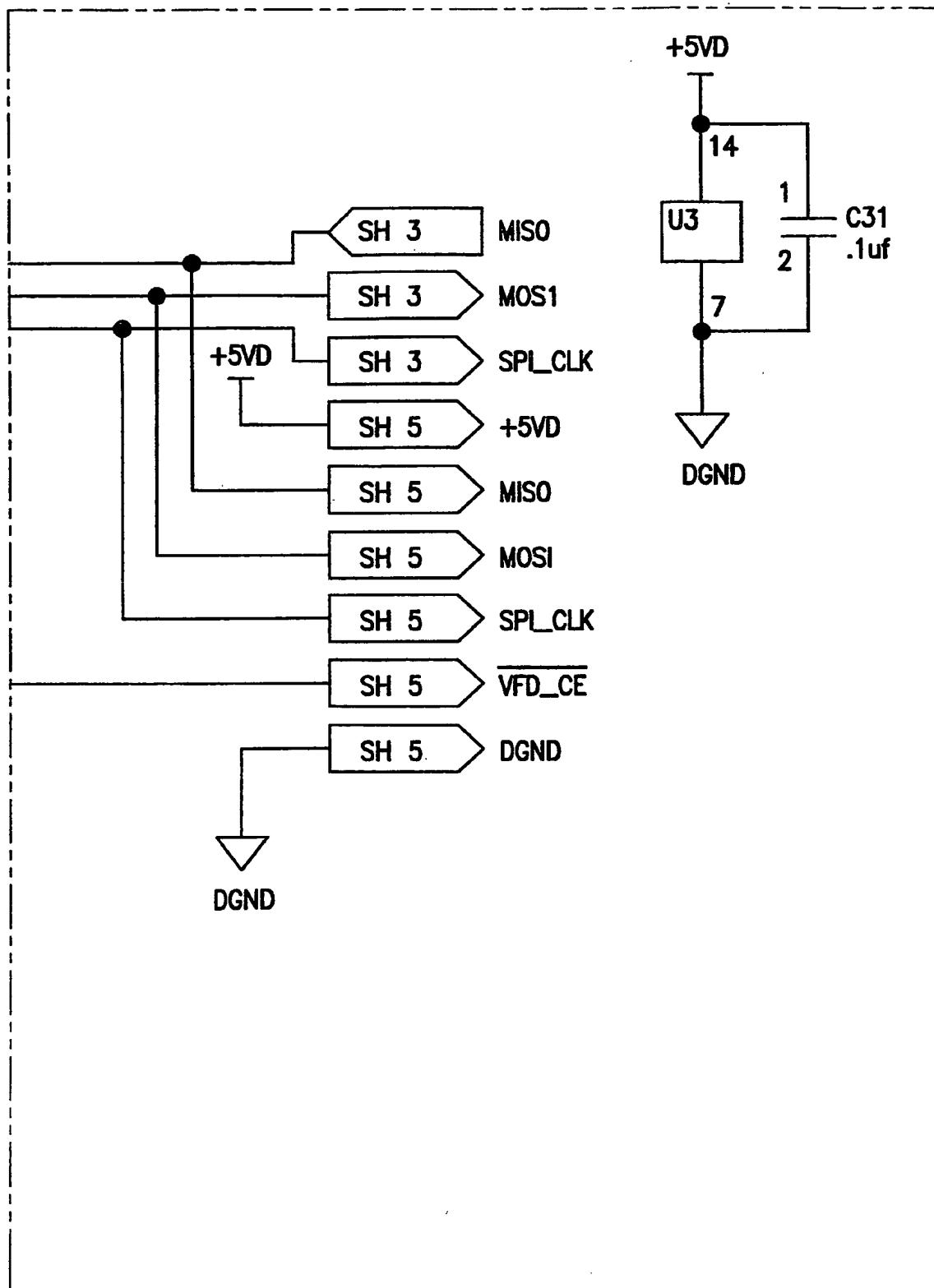


FIG. 62R



REPLACEMENT SHEET

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FIG. 62S

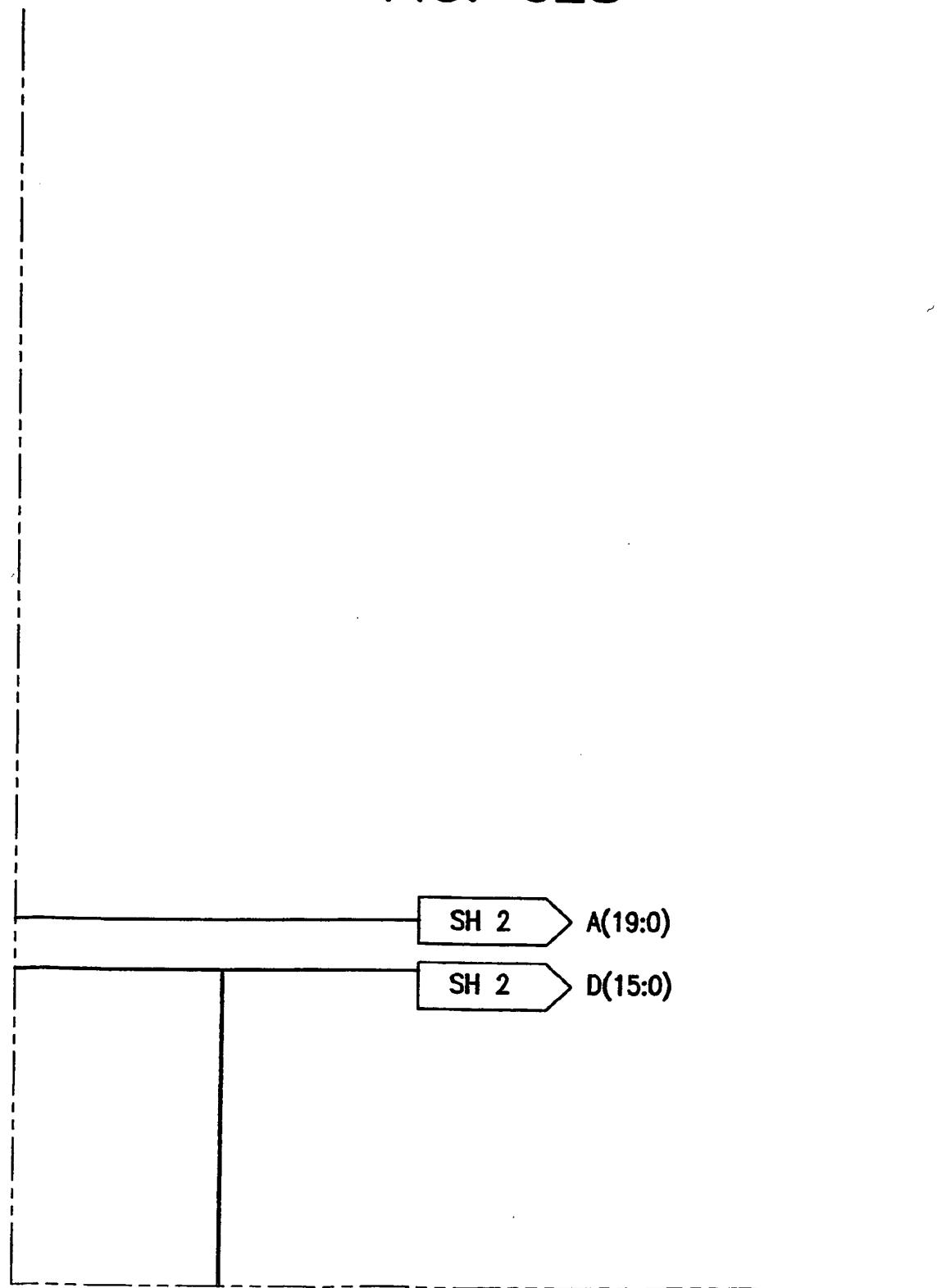
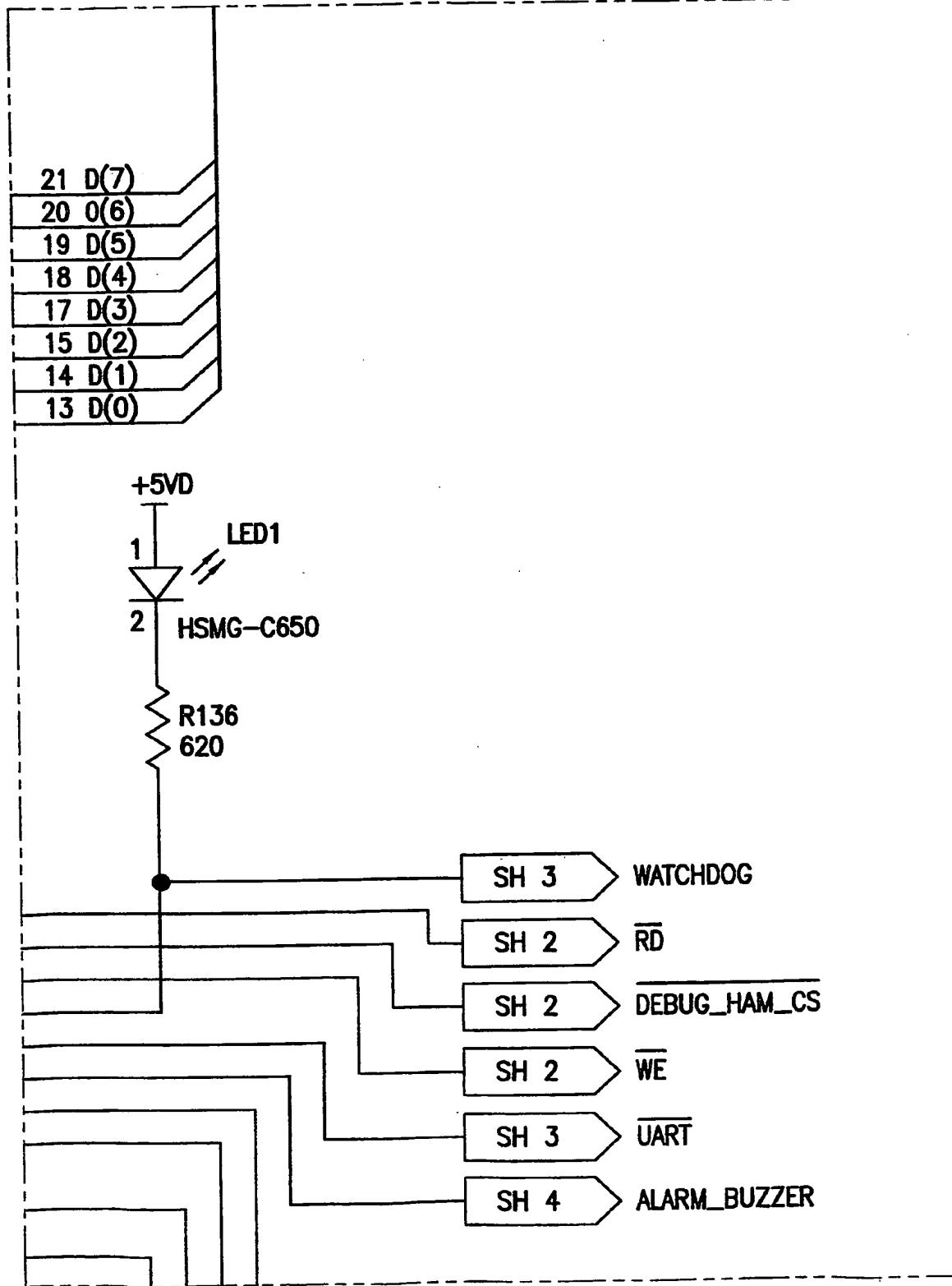


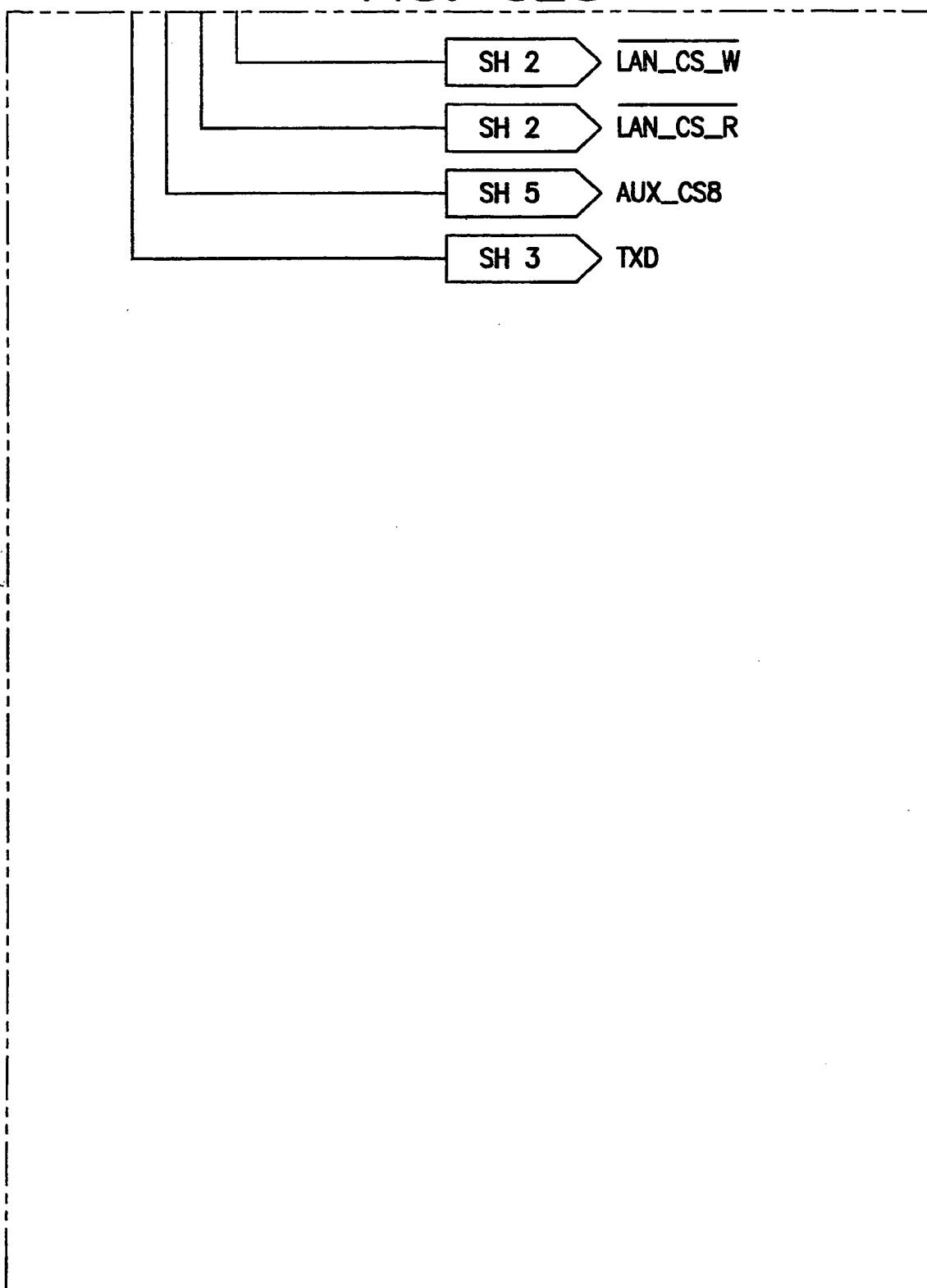
FIG. 62T



REPLACEMENT SHEET

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FIG. 62U



REPLACEMENT SHEET

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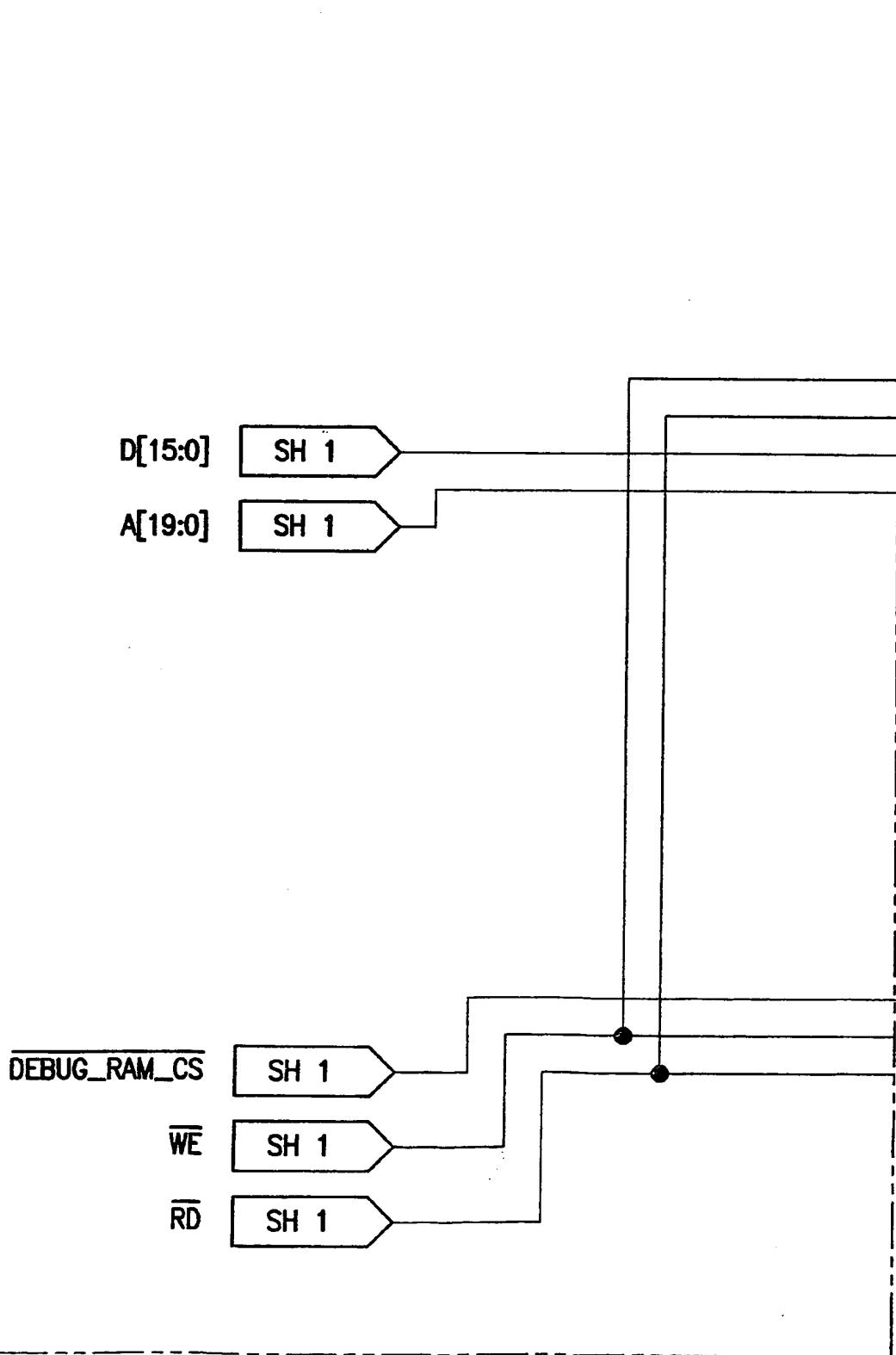
FIG. 63

FIG. 63A	FIG. 63D	FIG. 63G	FIG. 63J
FIG. 63B	FIG. 63E	FIG. 63H	FIG. 63K
FIG. 63C	FIG. 63F	FIG. 63I	FIG. 63L

REPLACEMENT SHEET

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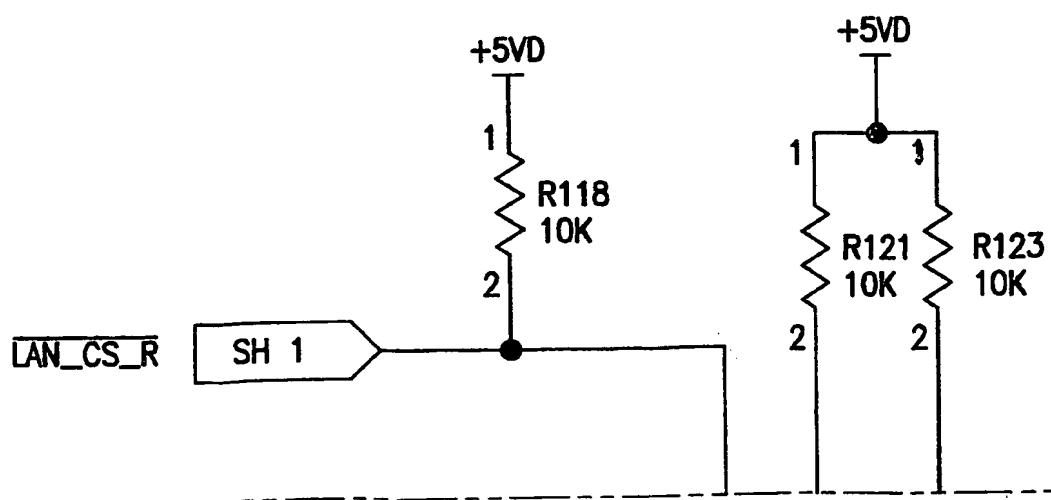
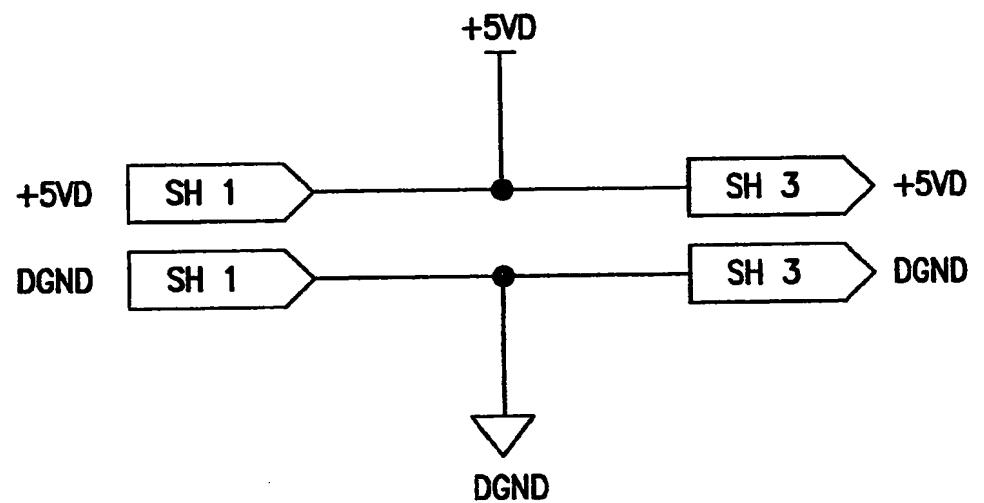
FIG. 63A



REPLACEMENT SHEET

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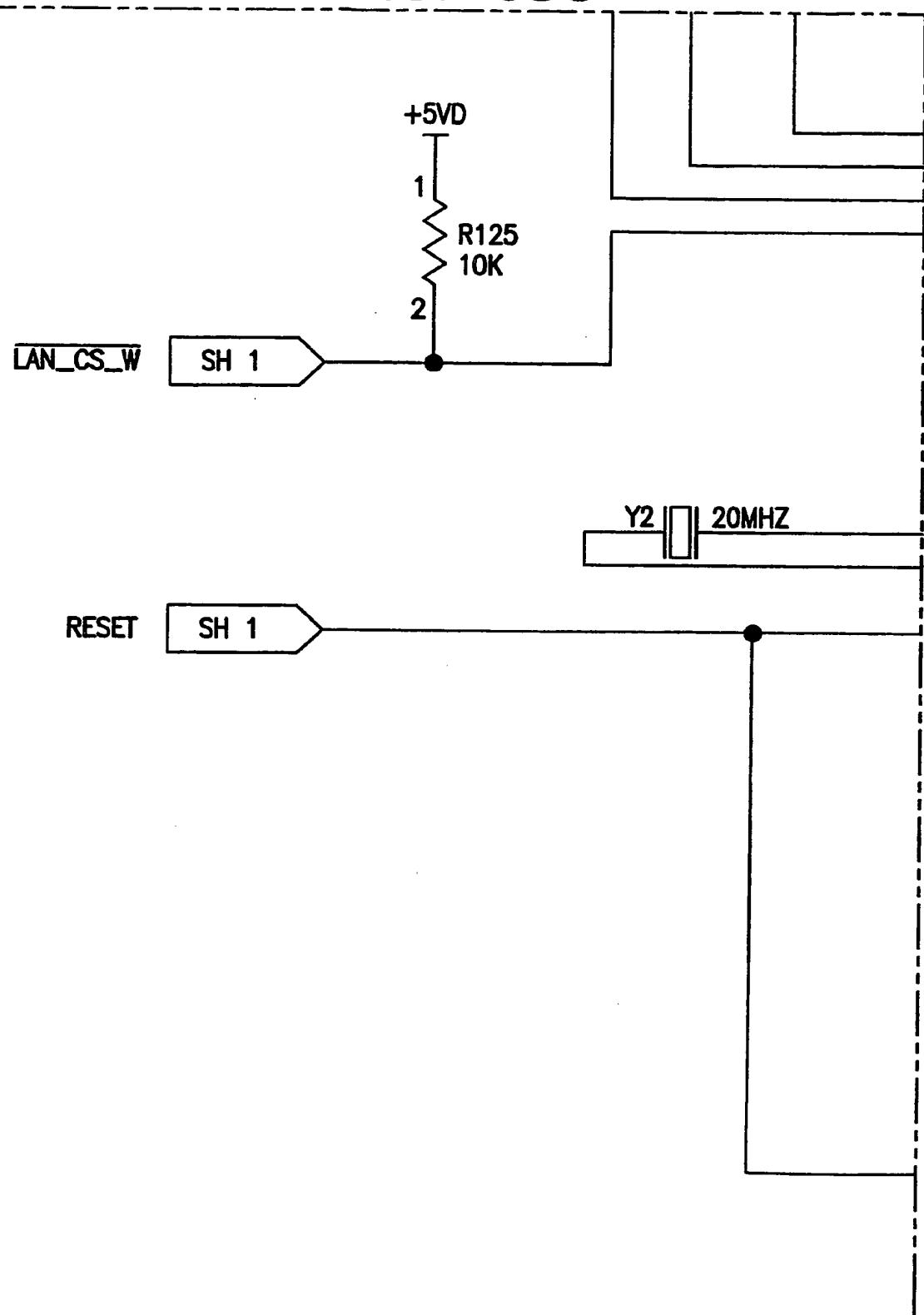
FIG. 63B



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FIG. 63C



**REPLACEMENT SHEET**

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**FIG. 63D**

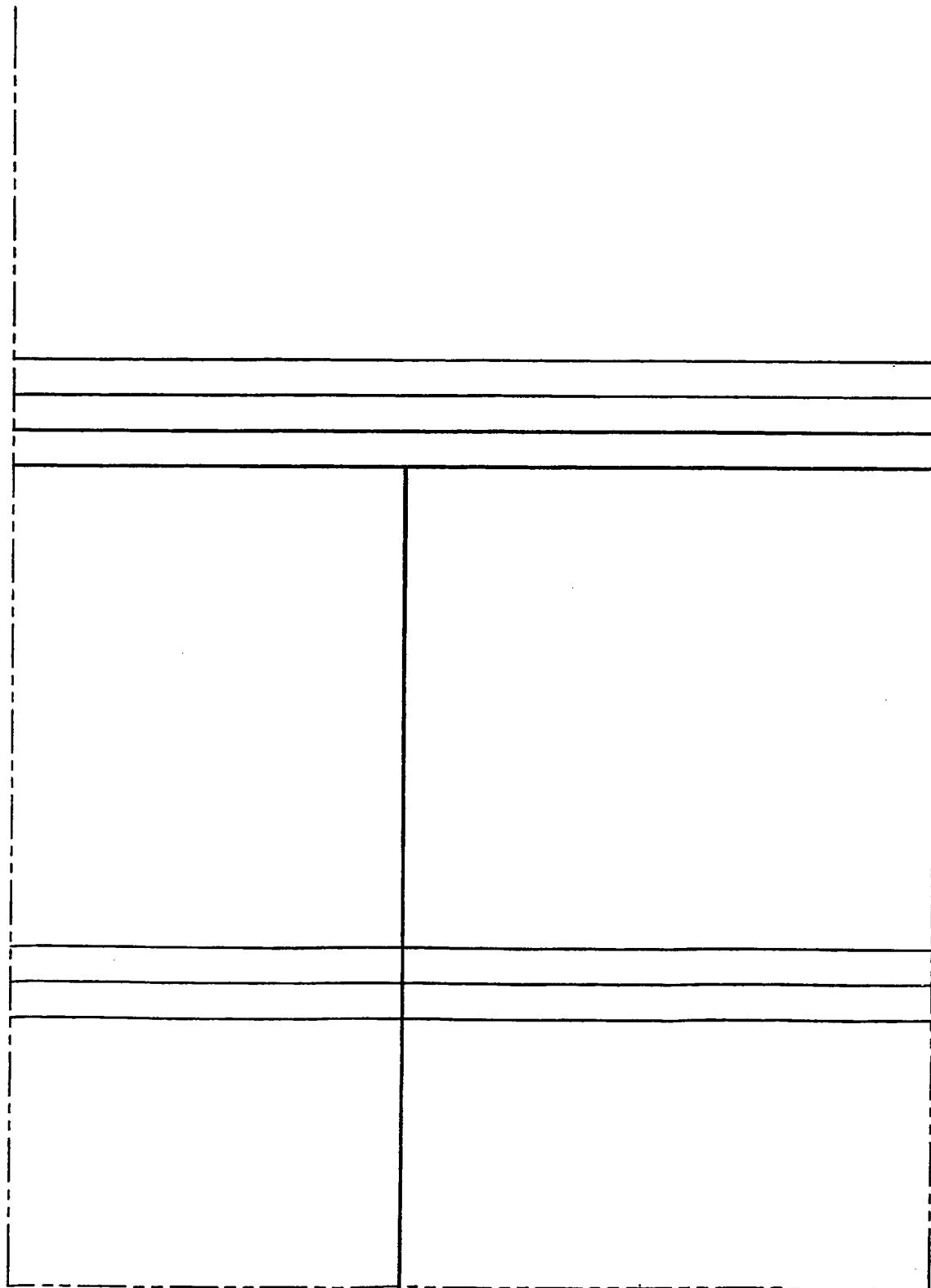
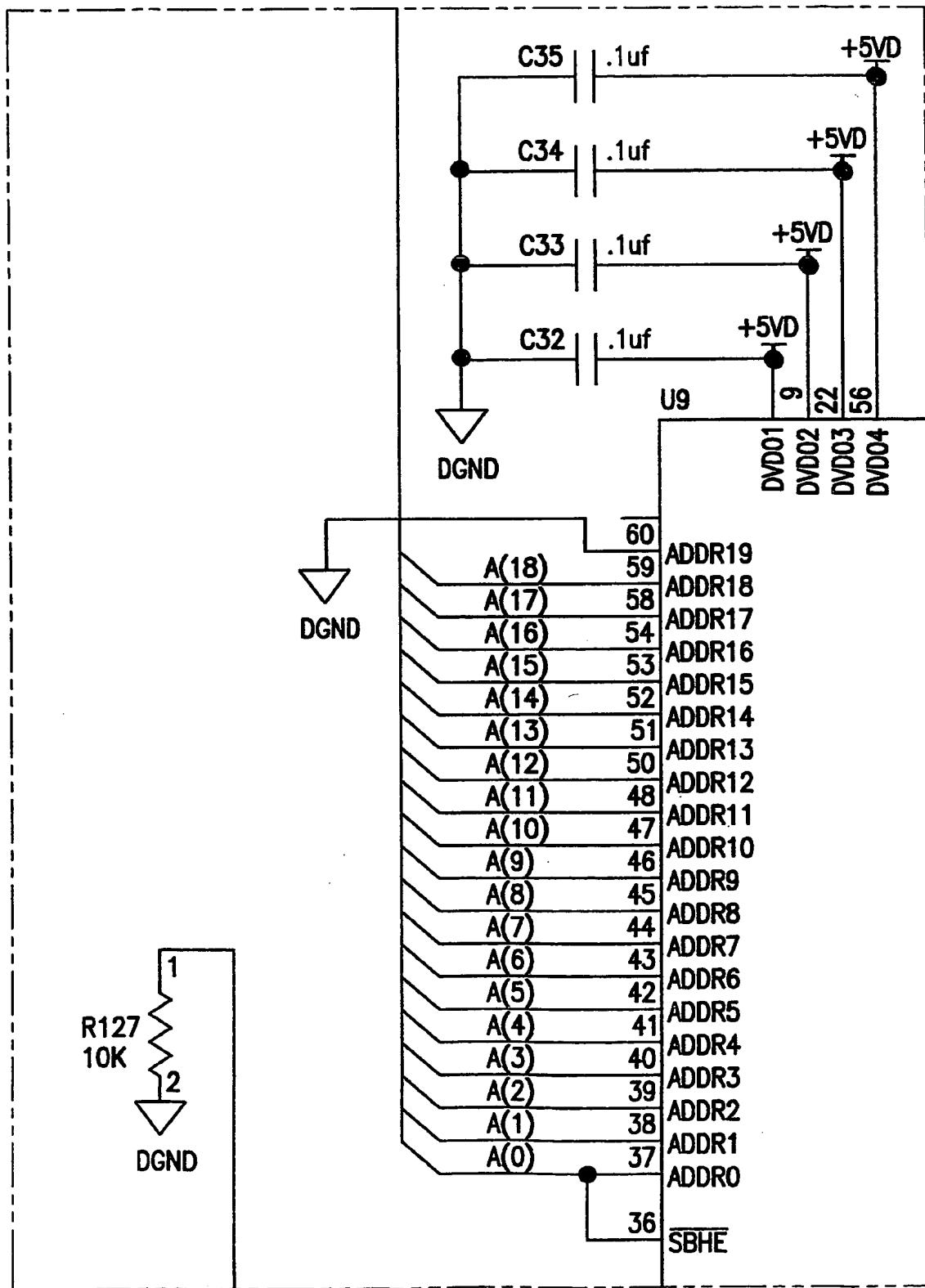


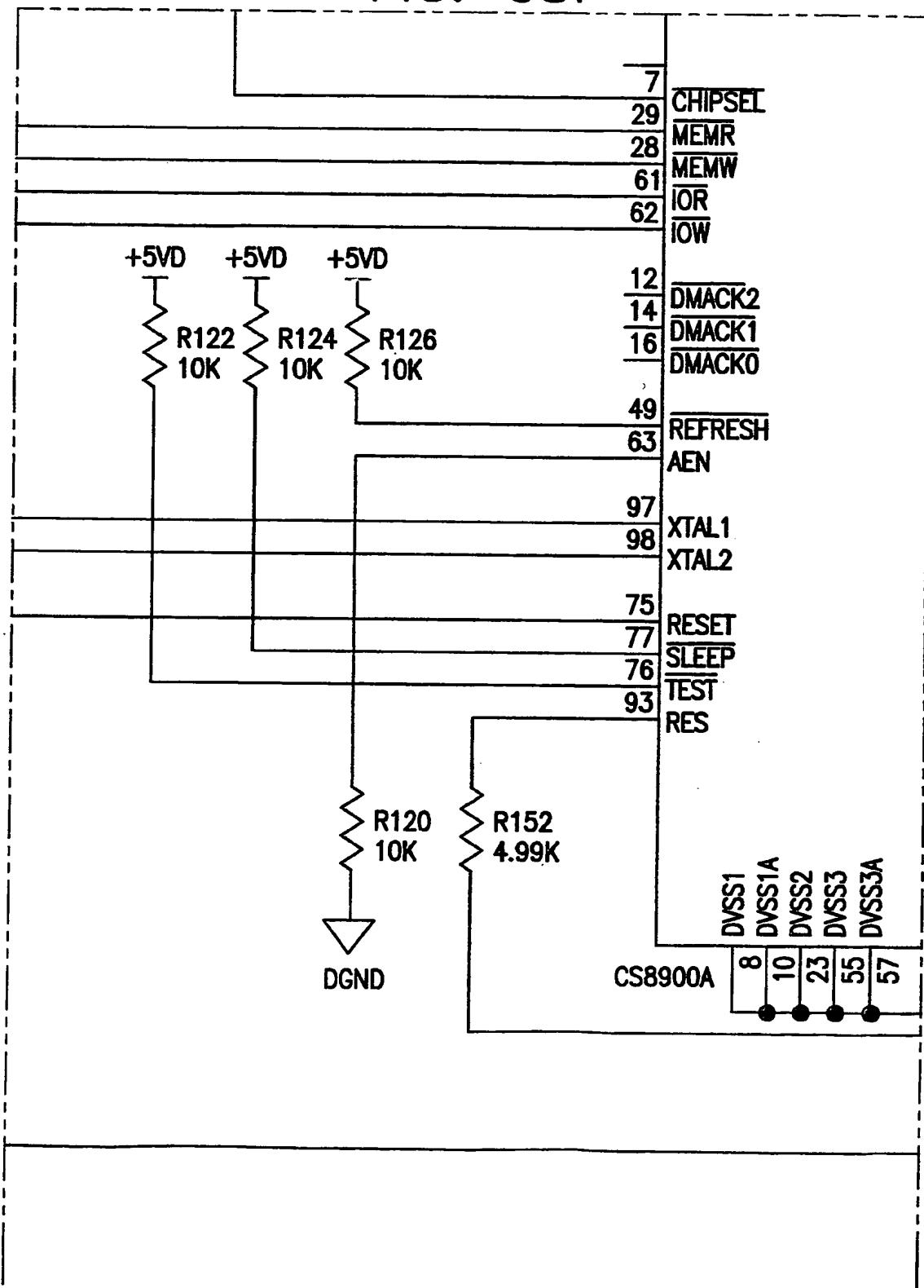
FIG. 63E



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FIG. 63F



**REPLACEMENT SHEET**

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**FIG. 63G**

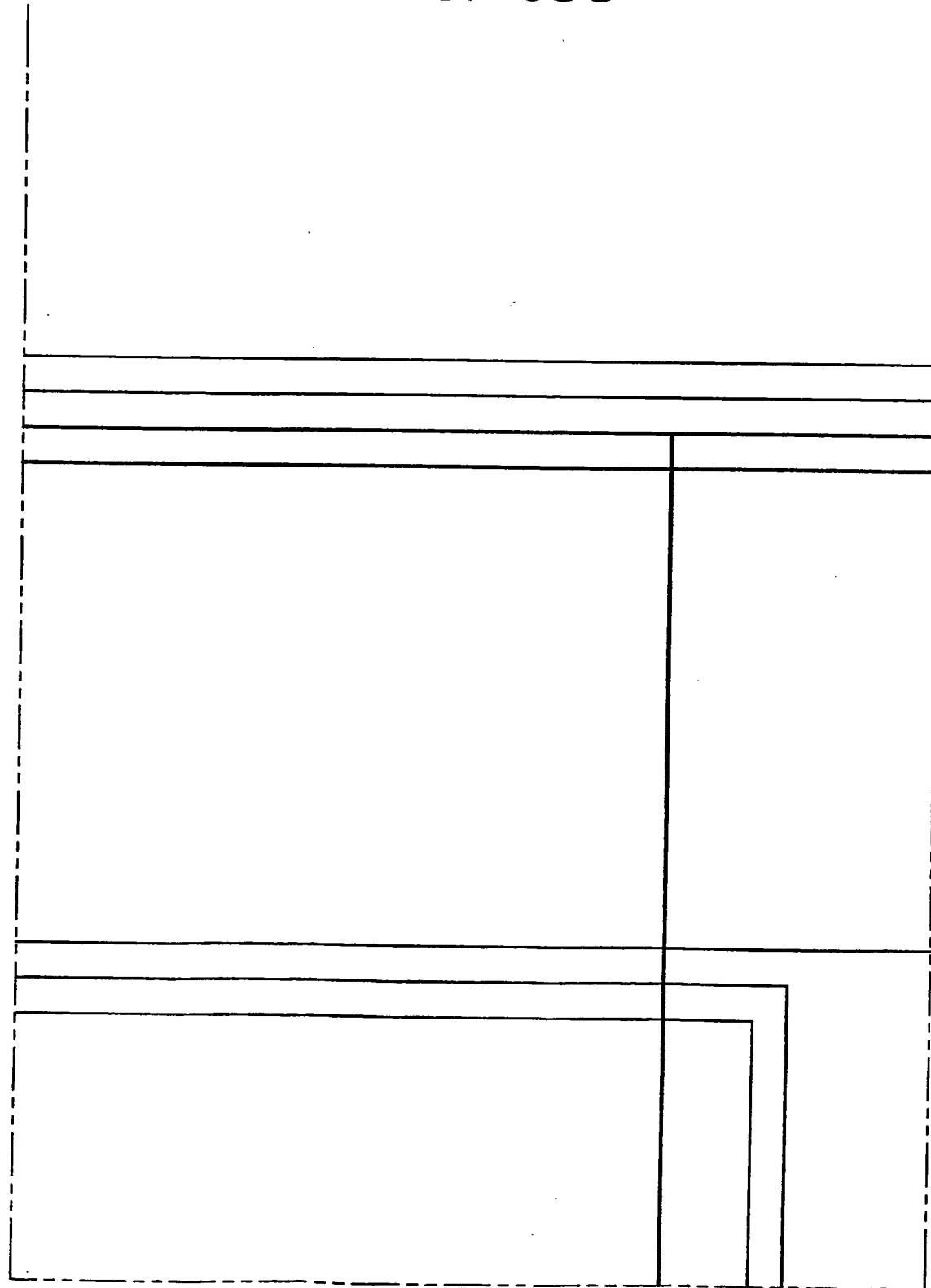
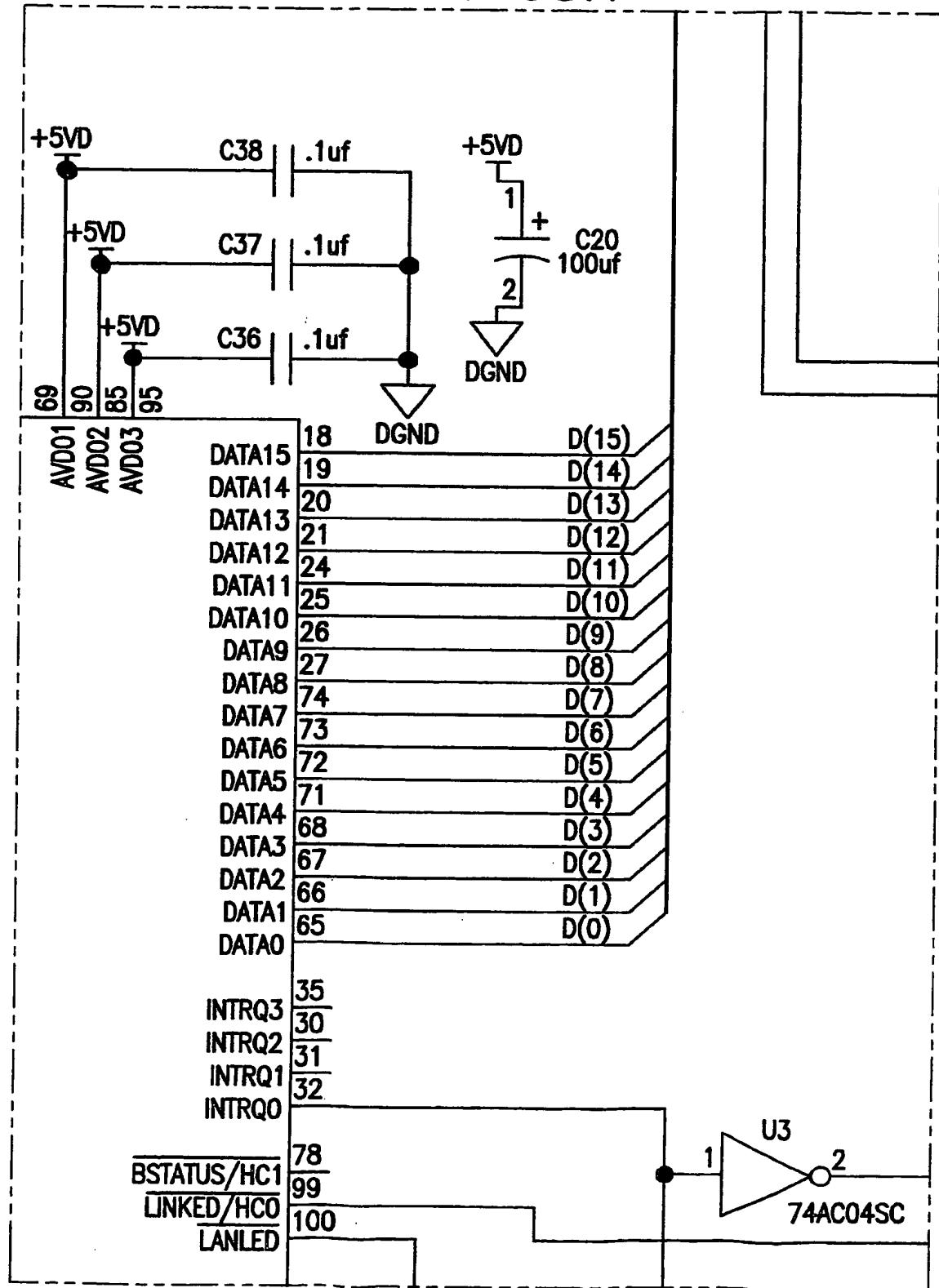


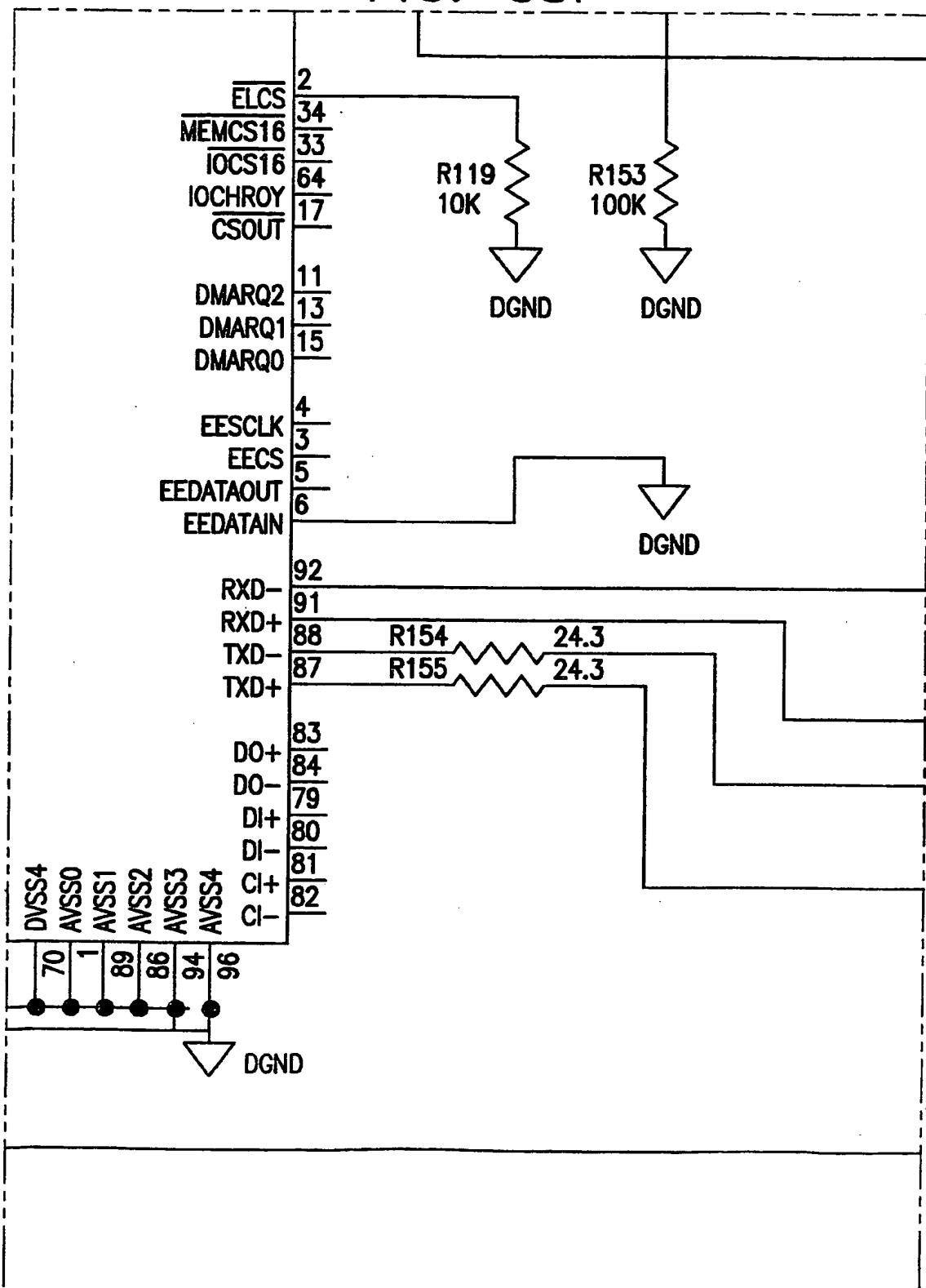
FIG. 63H



REPLACEMENT SHEET

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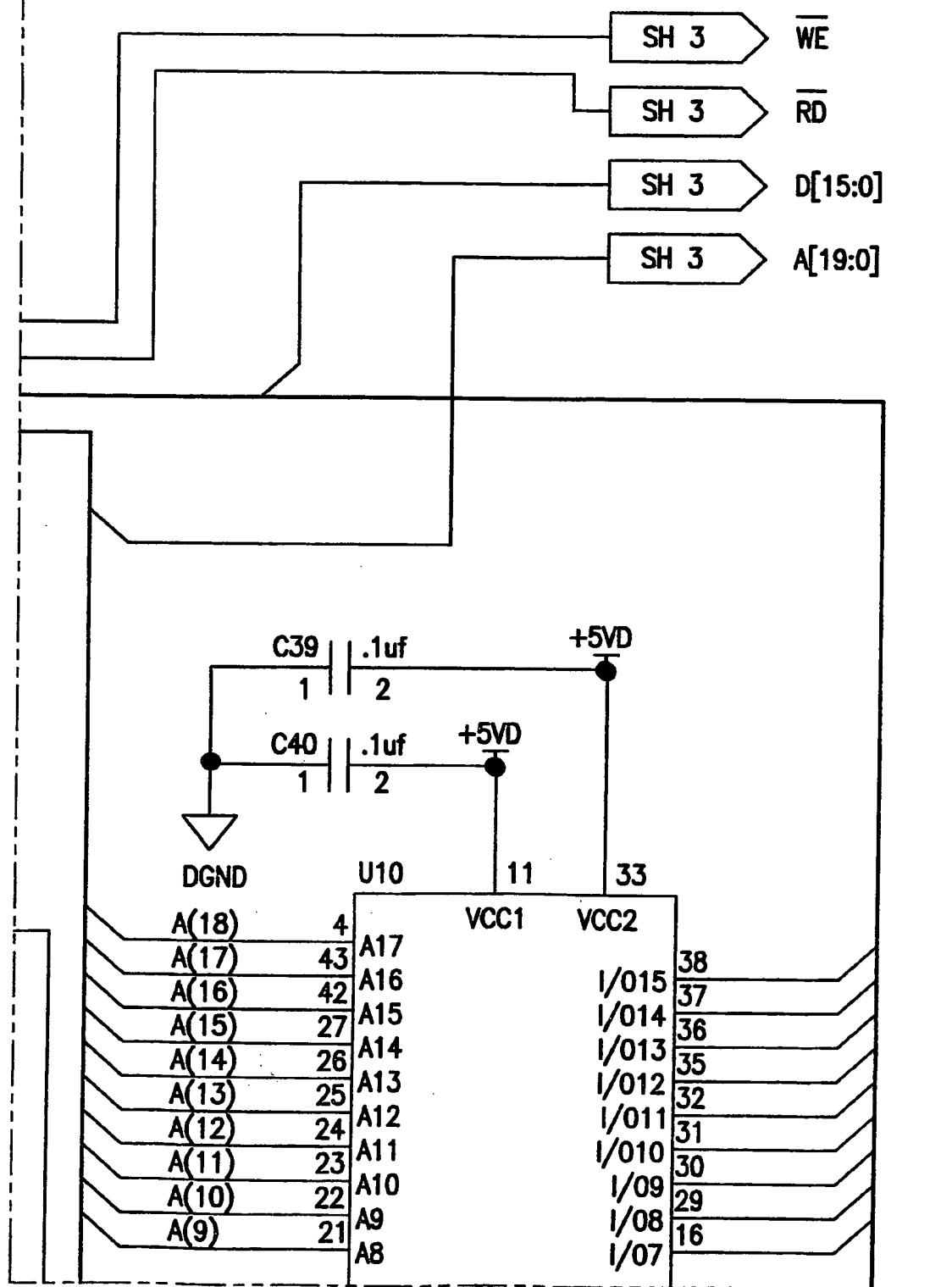
FIG. 631



REPLACEMENT SHEET

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FIG. 63J



REPLACEMENT SHEET

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FIG. 63K

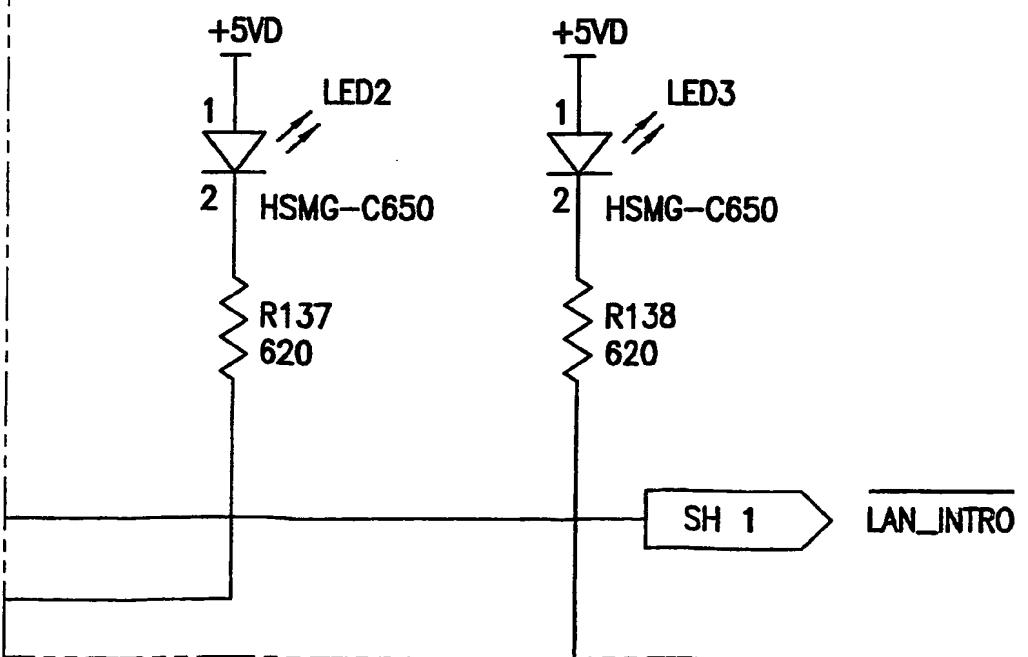
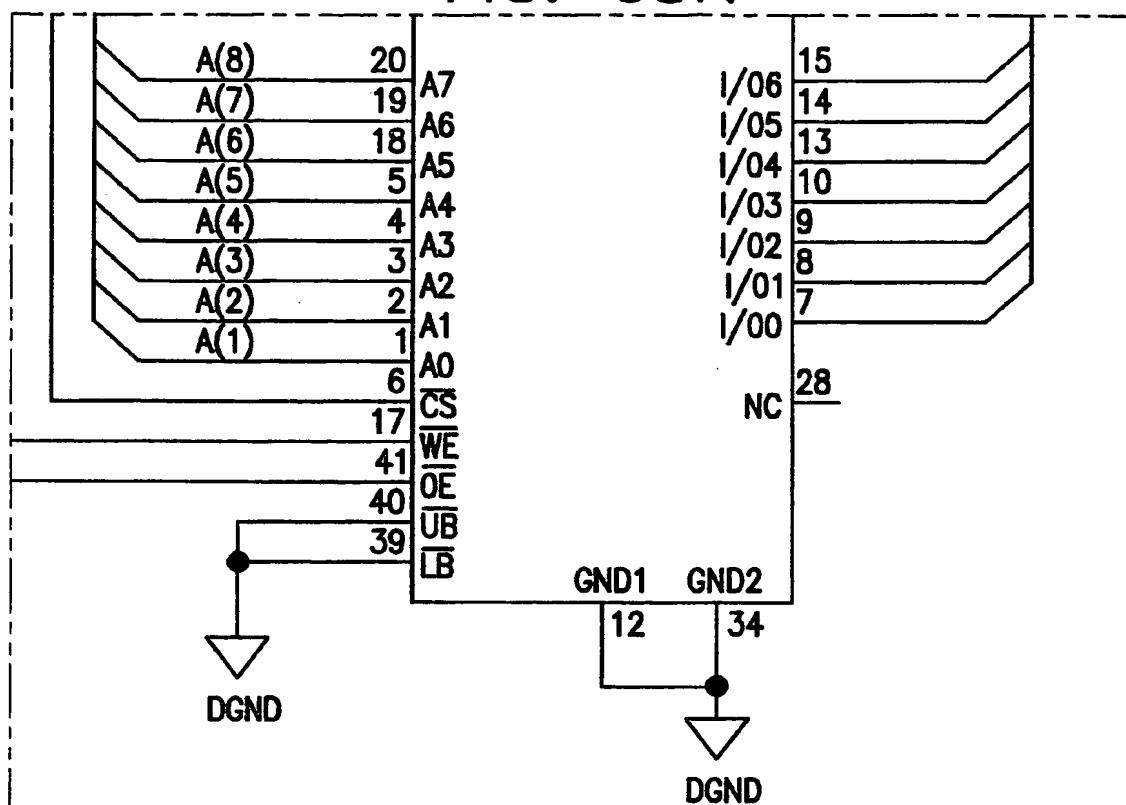
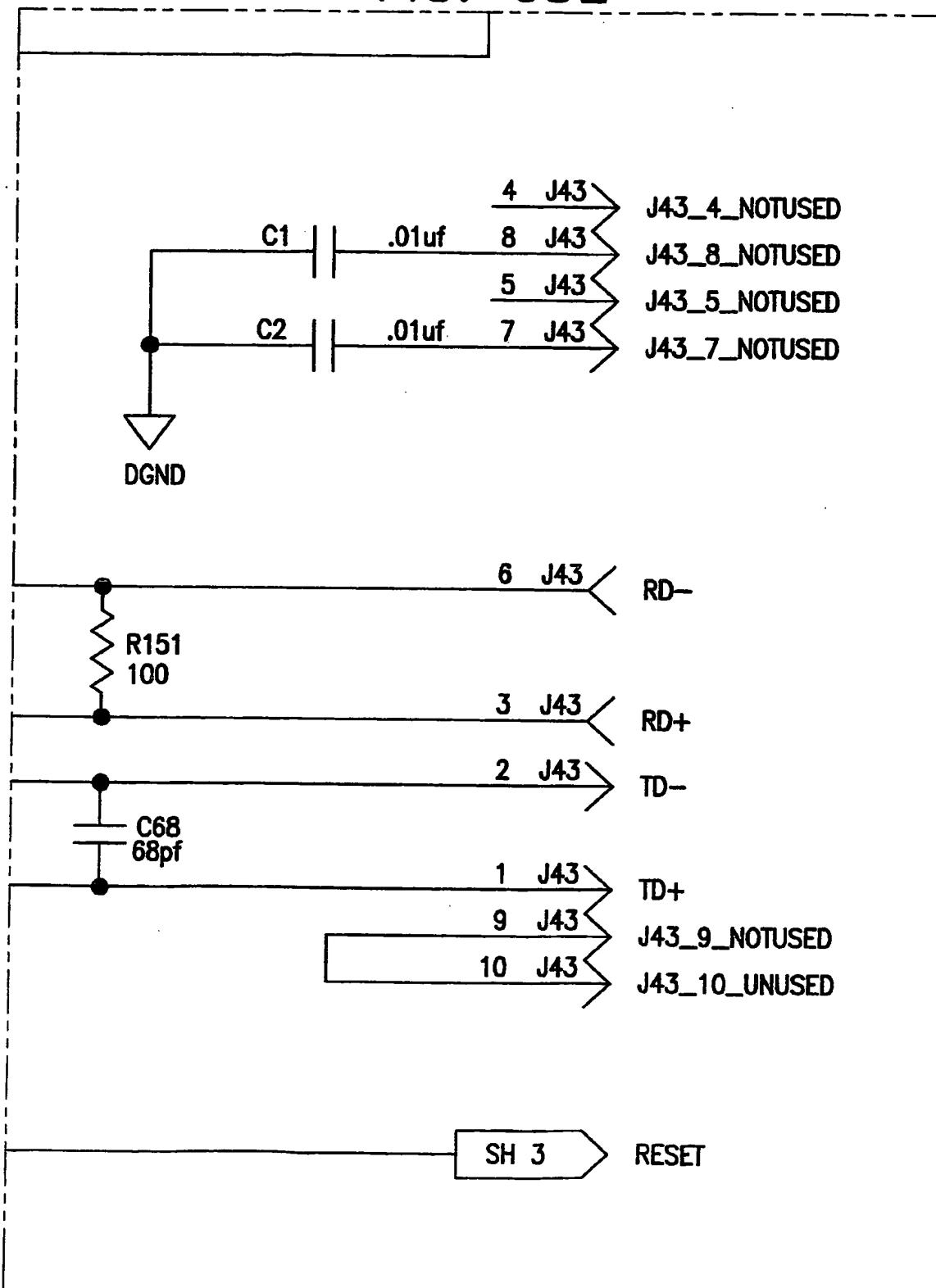


FIG. 63L



REPLACEMENT SHEET

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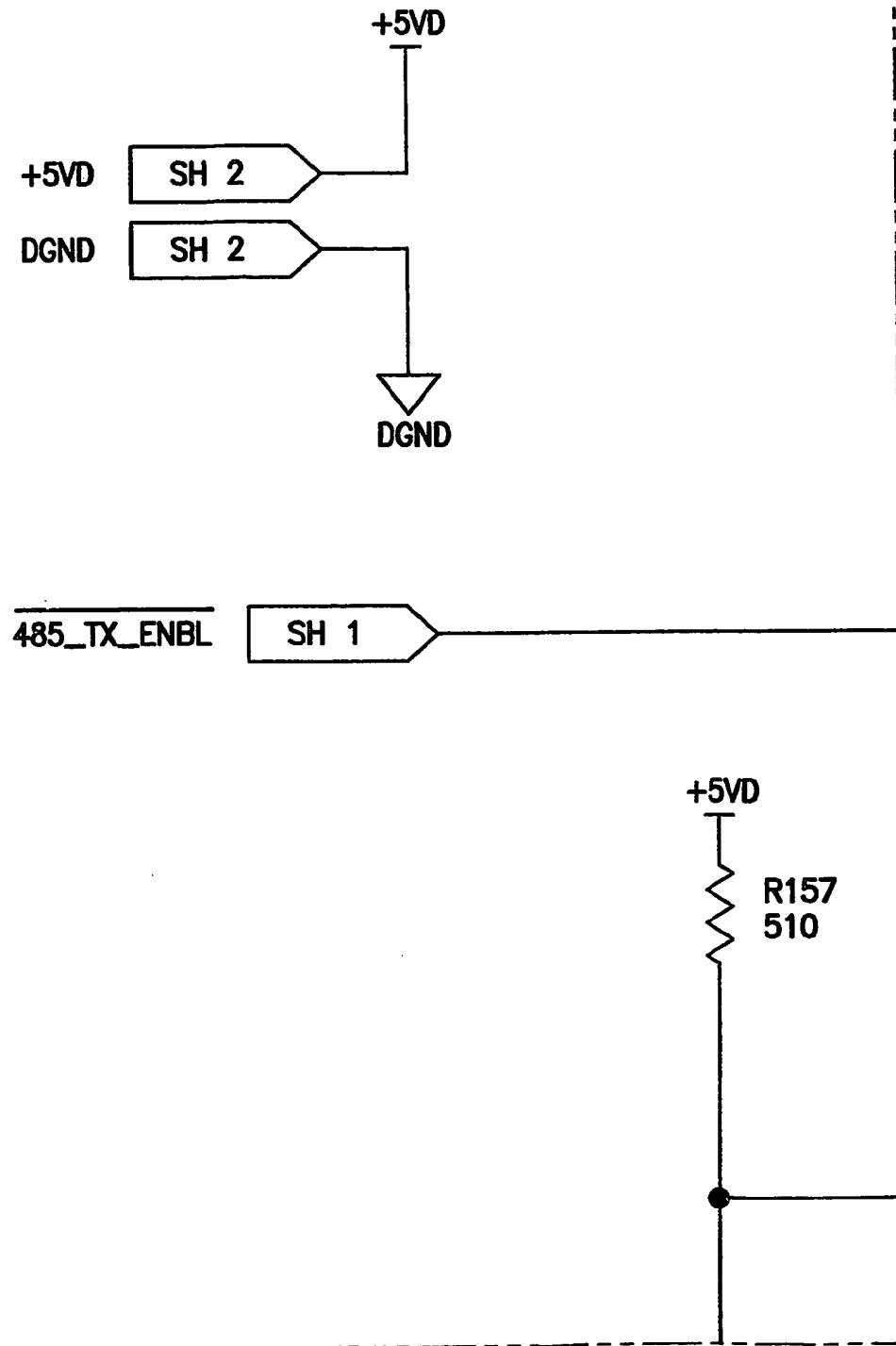
FIG. 64

FIG. 64A	FIG. 64D	FIG. 64G	FIG. 64J	FIG. 64M	FIG. 64P
FIG. 64B	FIG. 64E	FIG. 64H	FIG. 64K	FIG. 64N	FIG. 64Q
FIG. 64C	FIG. 64F	FIG. 64I	FIG. 64L	FIG. 64O	

REPLACEMENT SHEET

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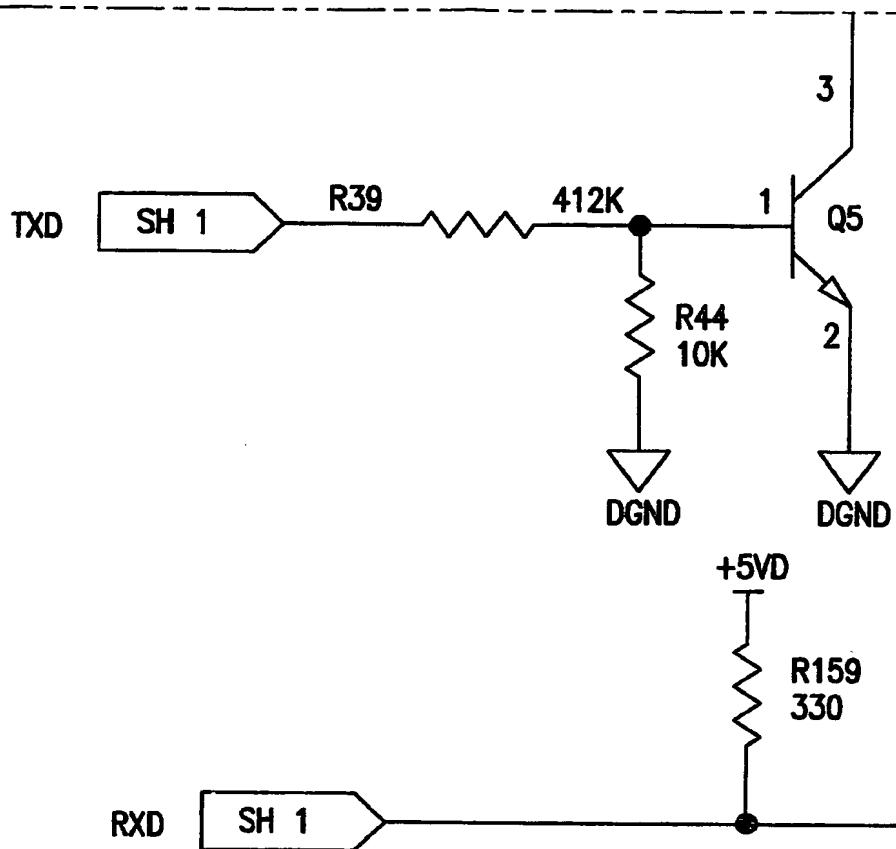
FIG. 64A



REPLACEMENT SHEET

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FIG. 64B



REPLACEMENT SHEET

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FIG. 64C

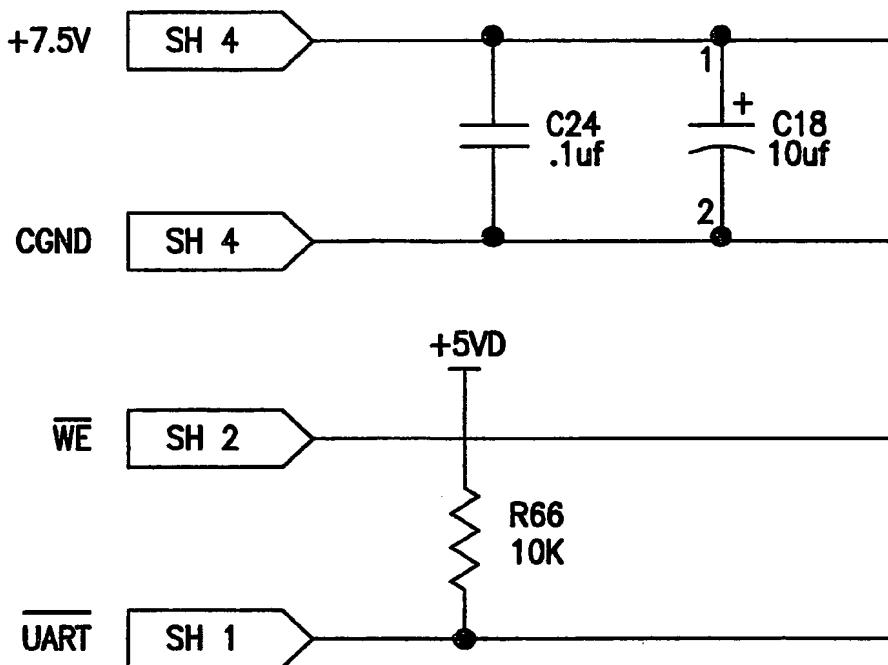


FIG. 64D

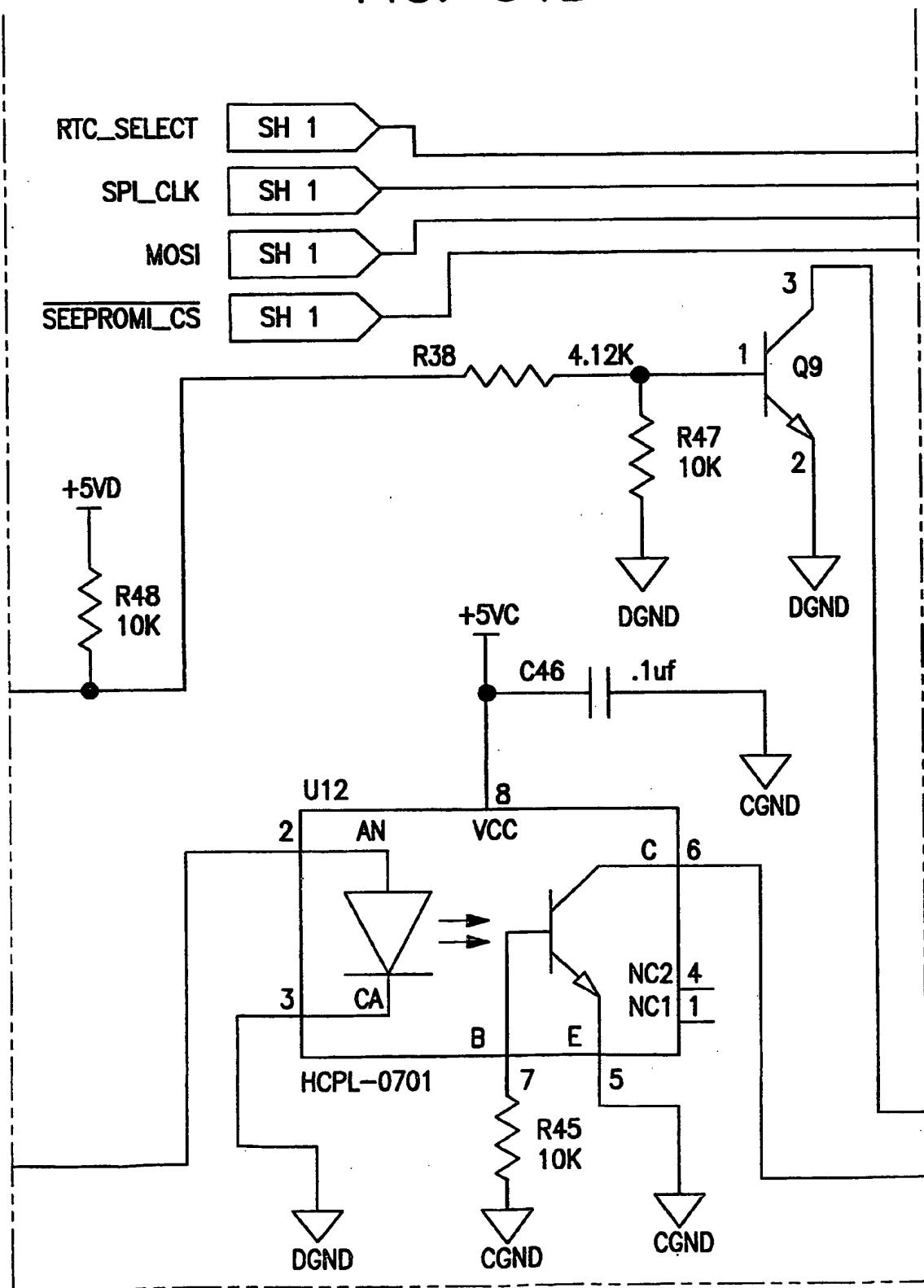


FIG. 64E

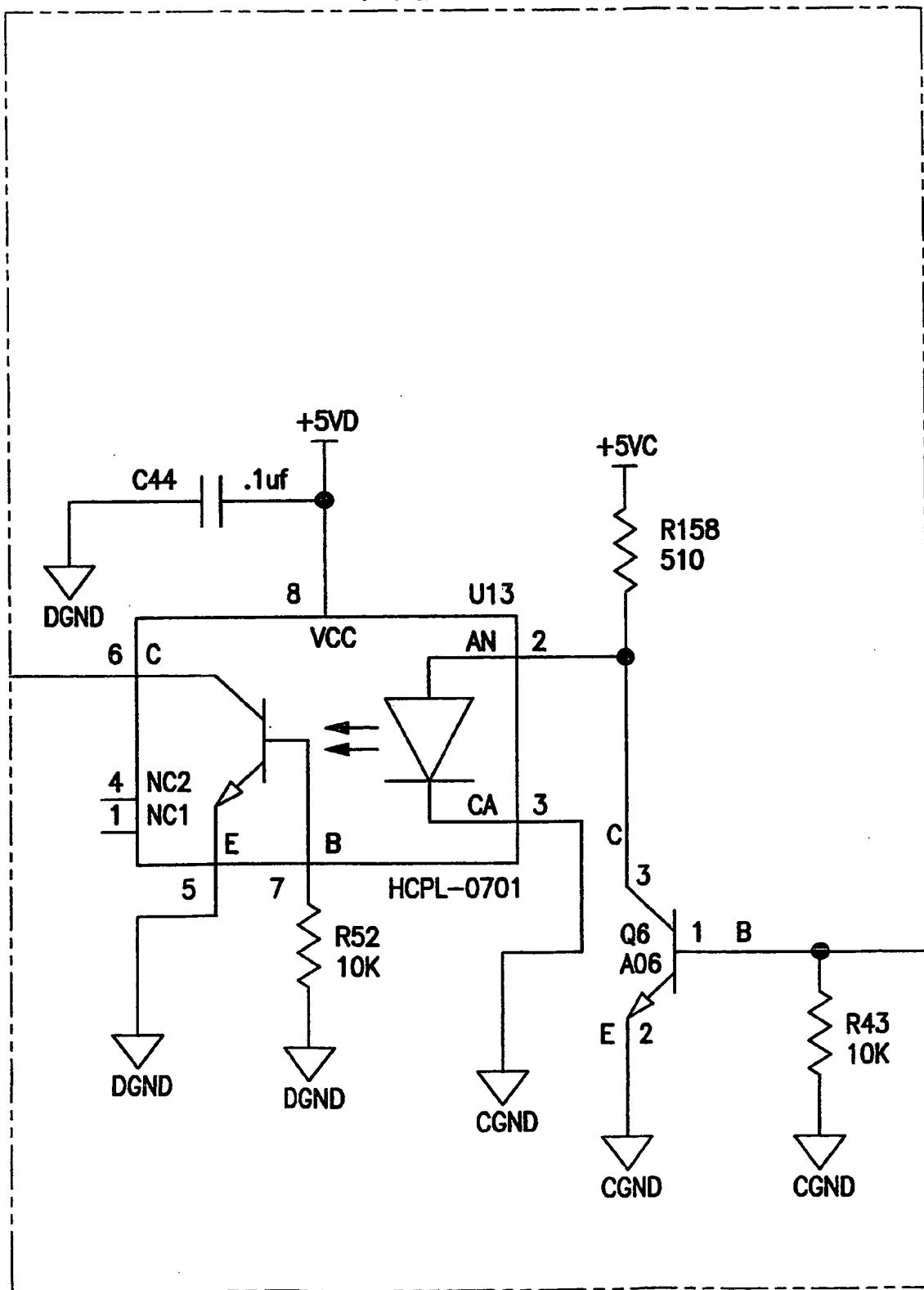


FIG. 64F

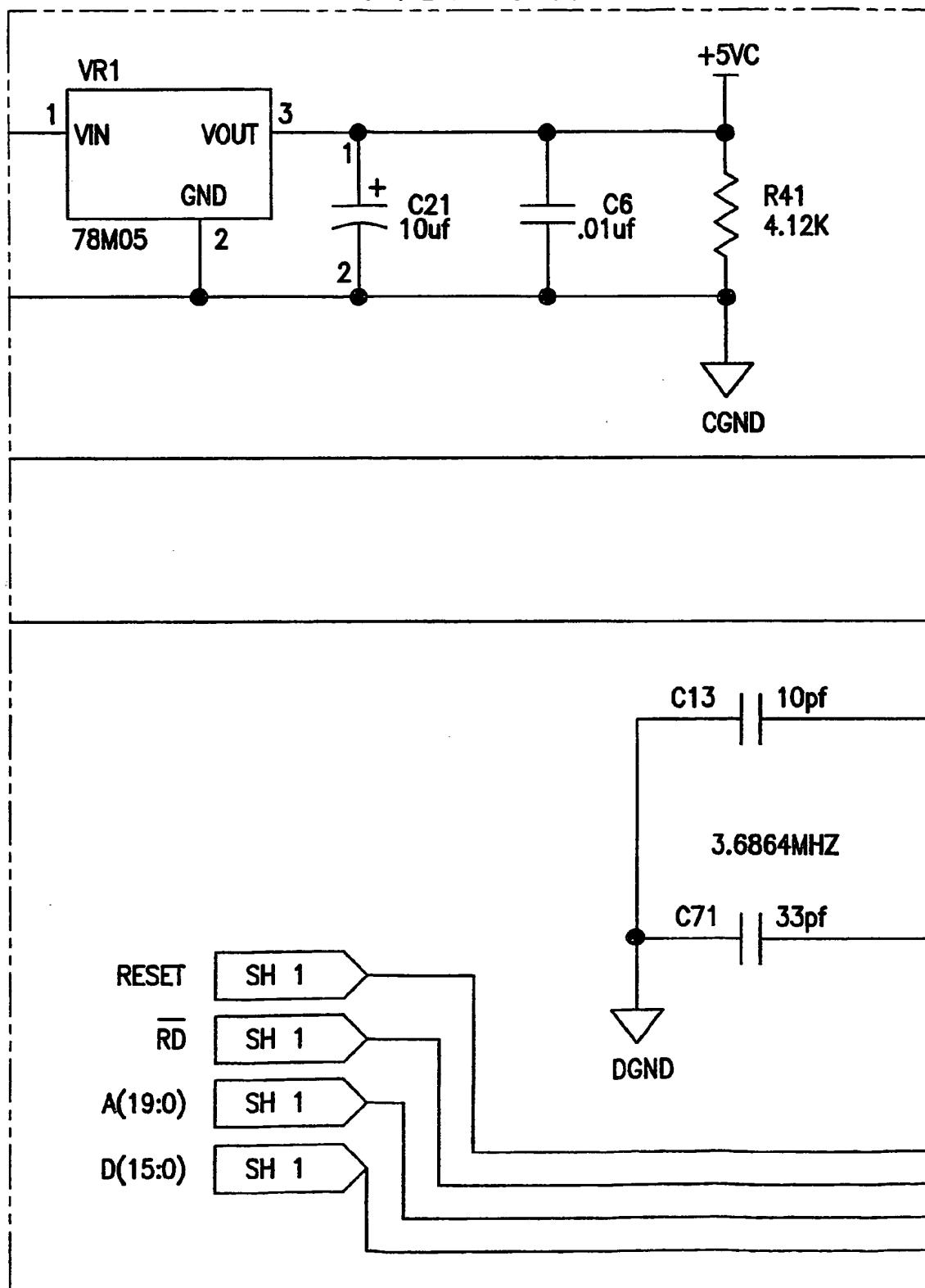
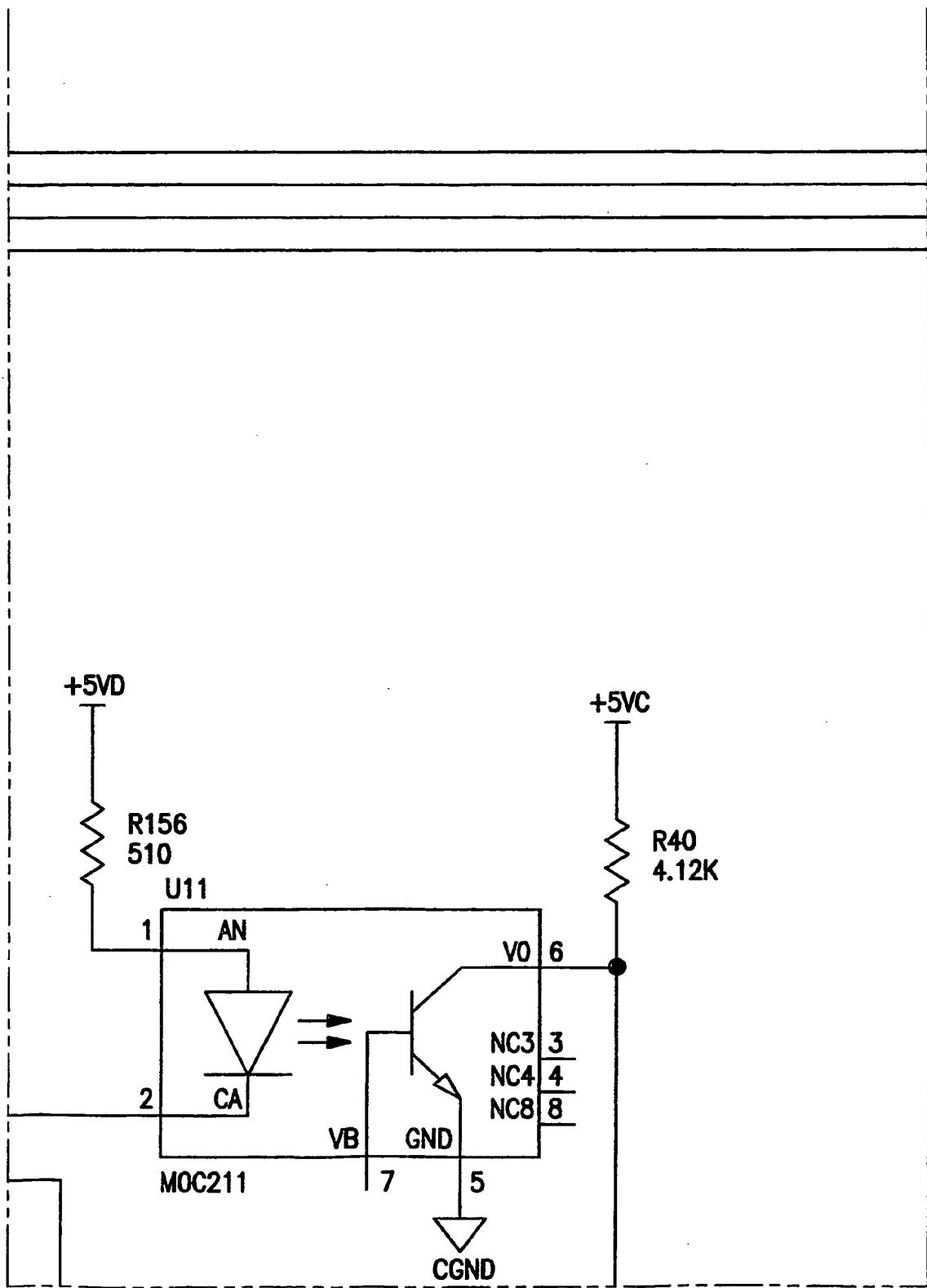


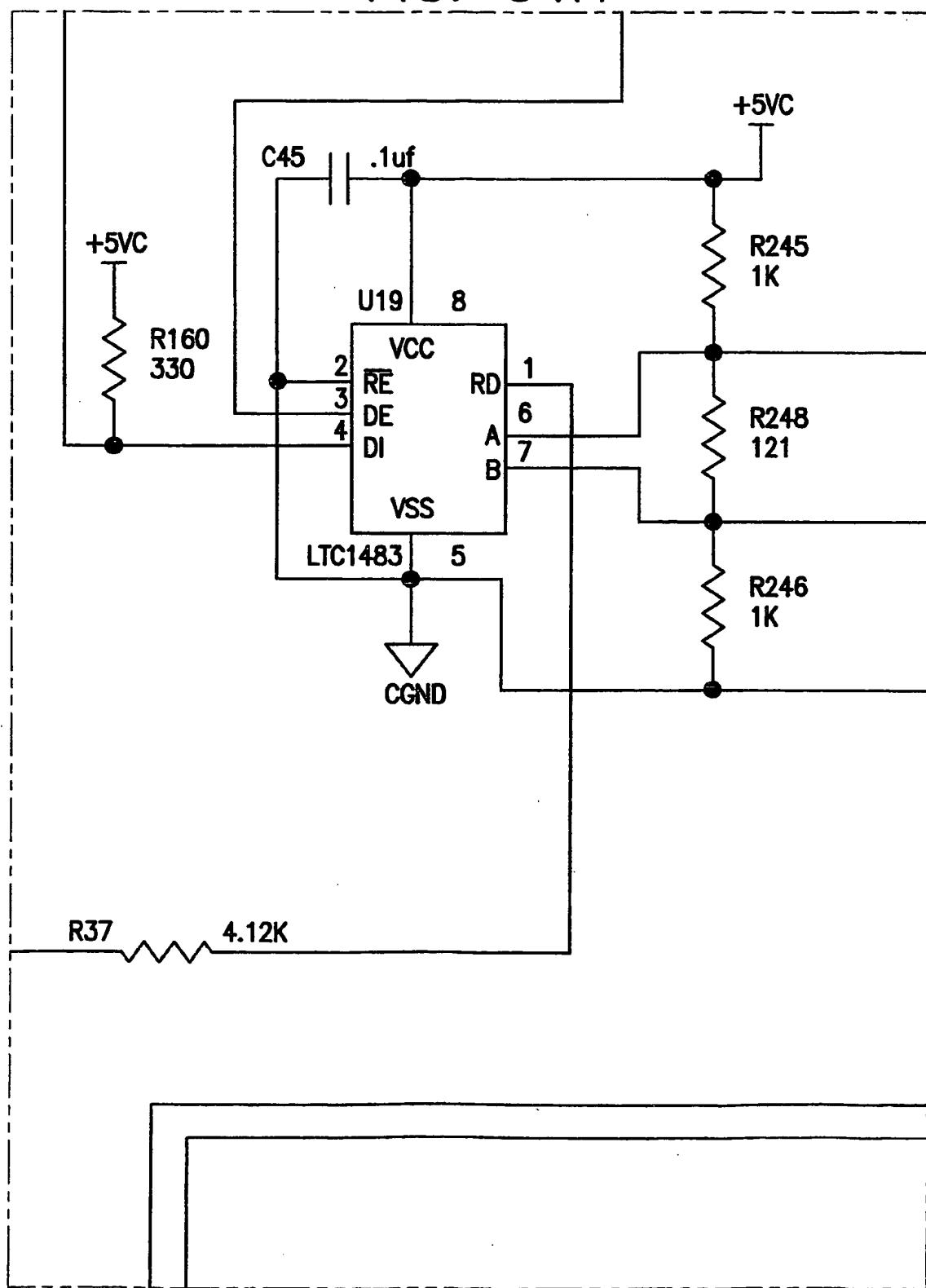
FIG. 64G



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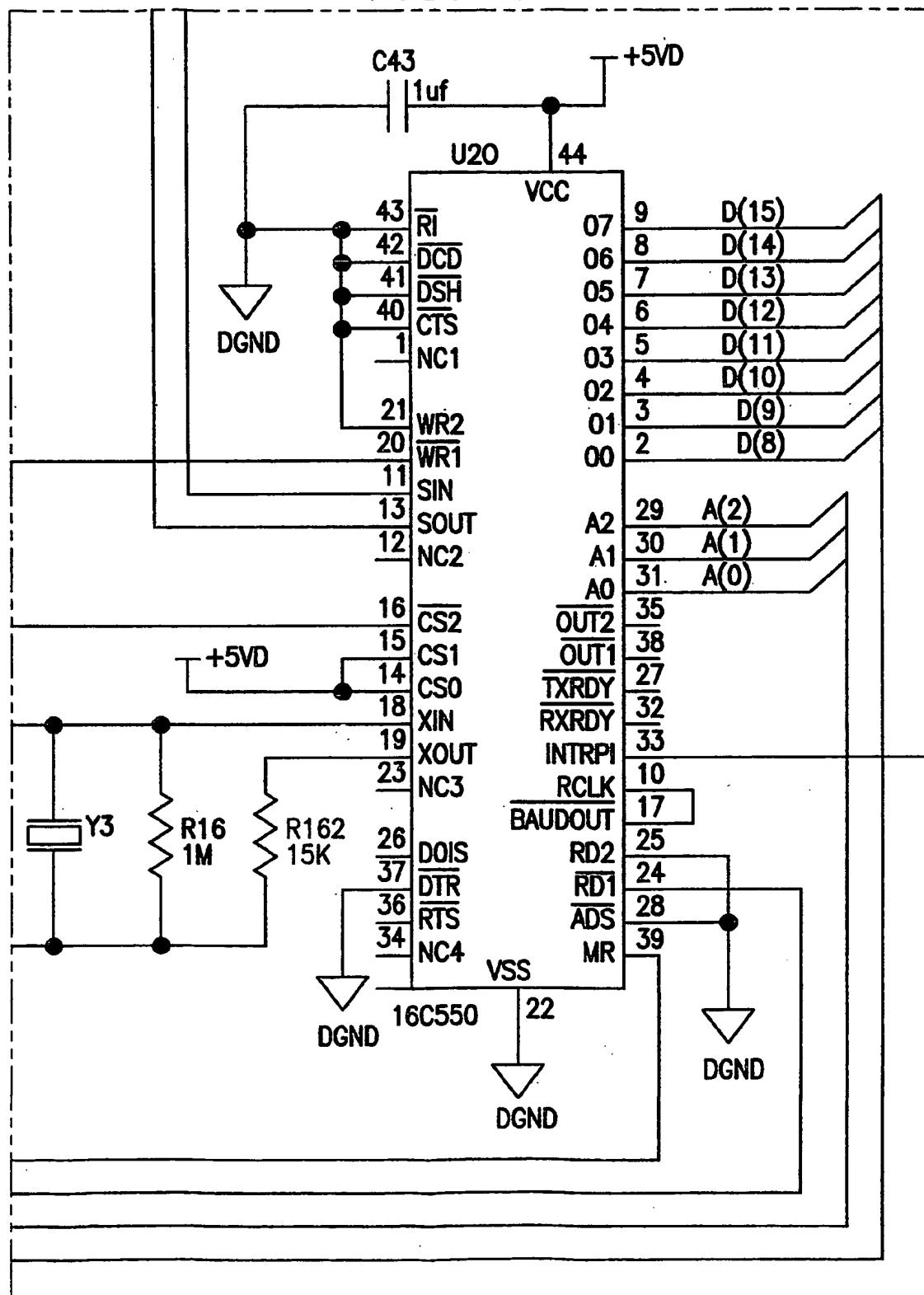
FIG. 64H



## **REPLACEMENT SHEET**

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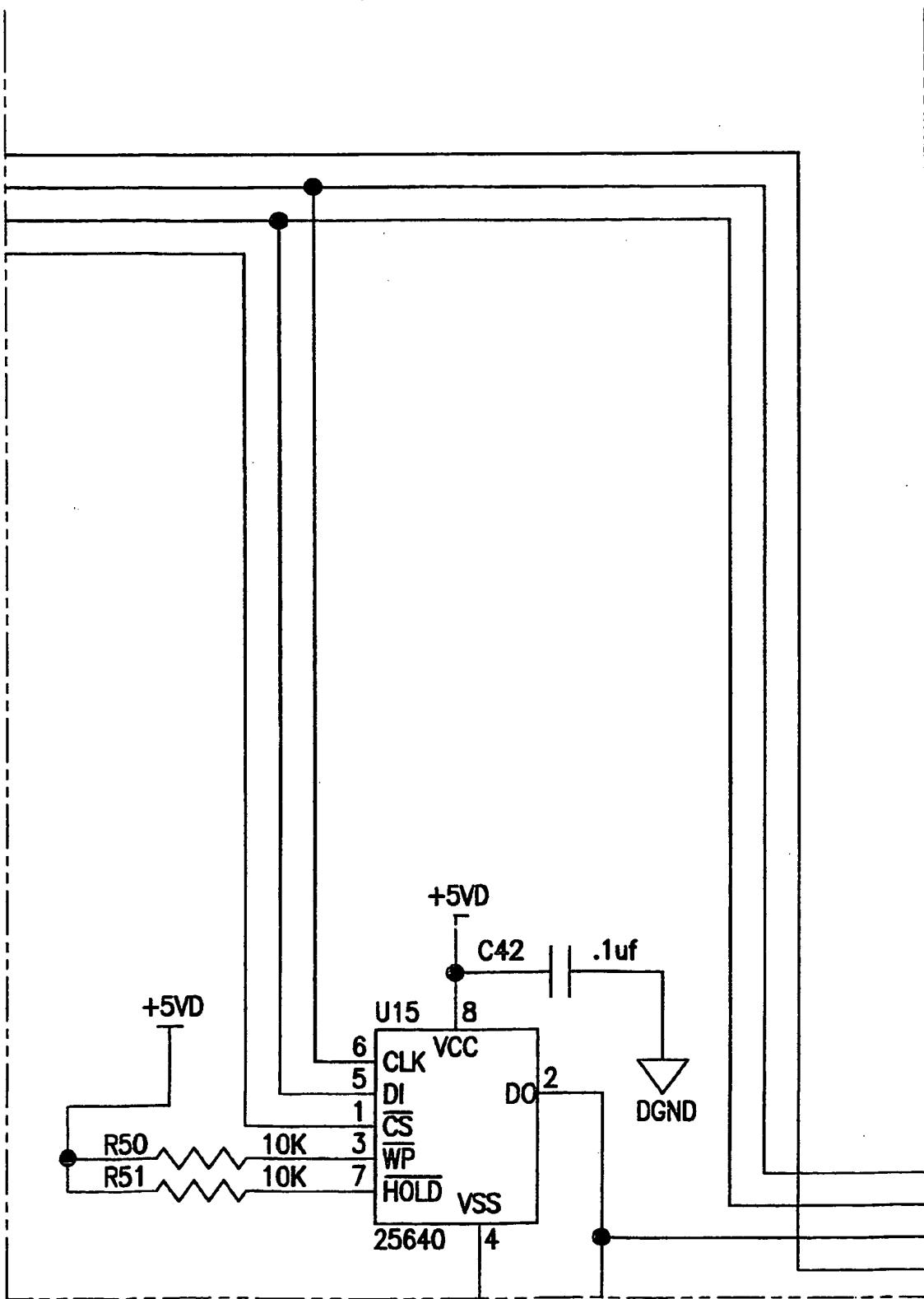
FIG. 641



REPLACEMENT SHEET

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FIG. 64J



REPLACEMENT SHEET

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FIG. 64K

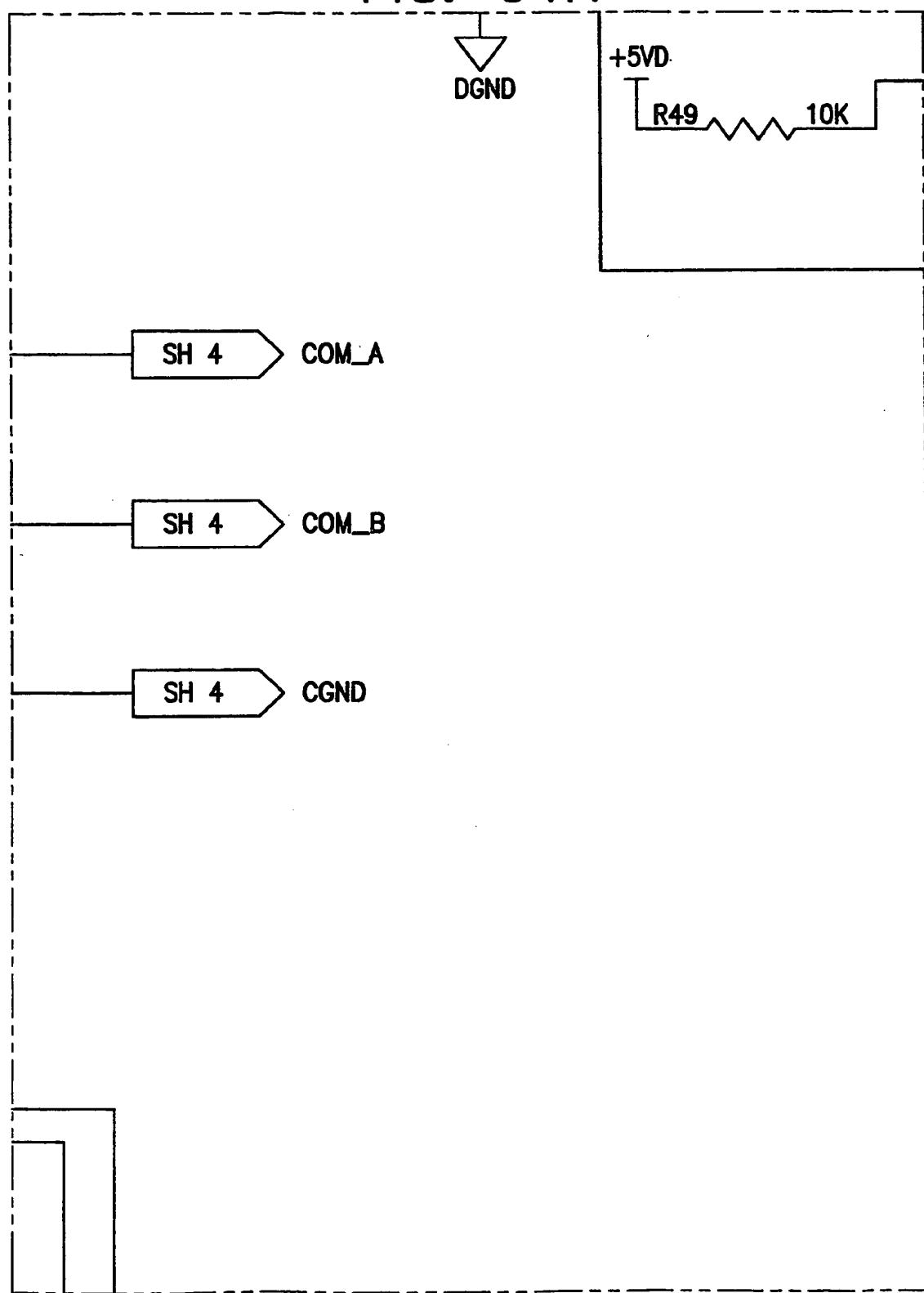


FIG. 64L

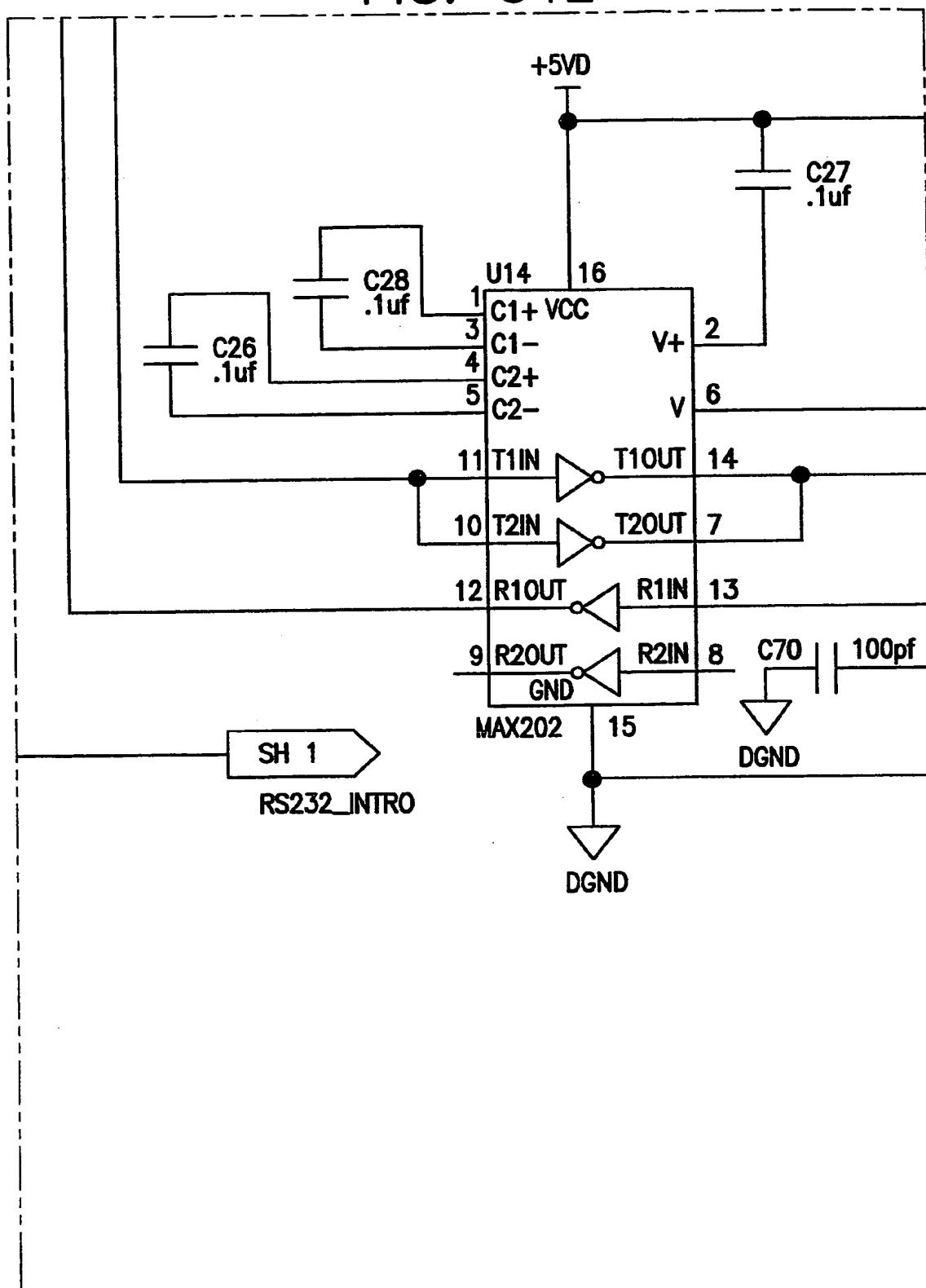
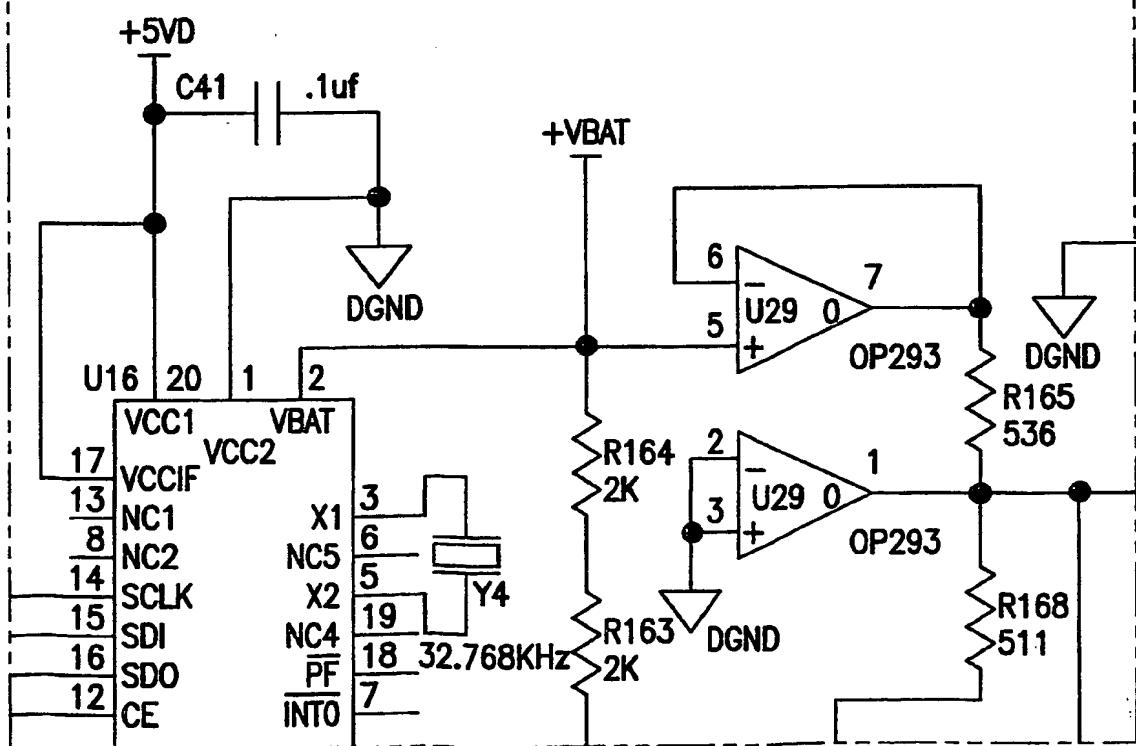


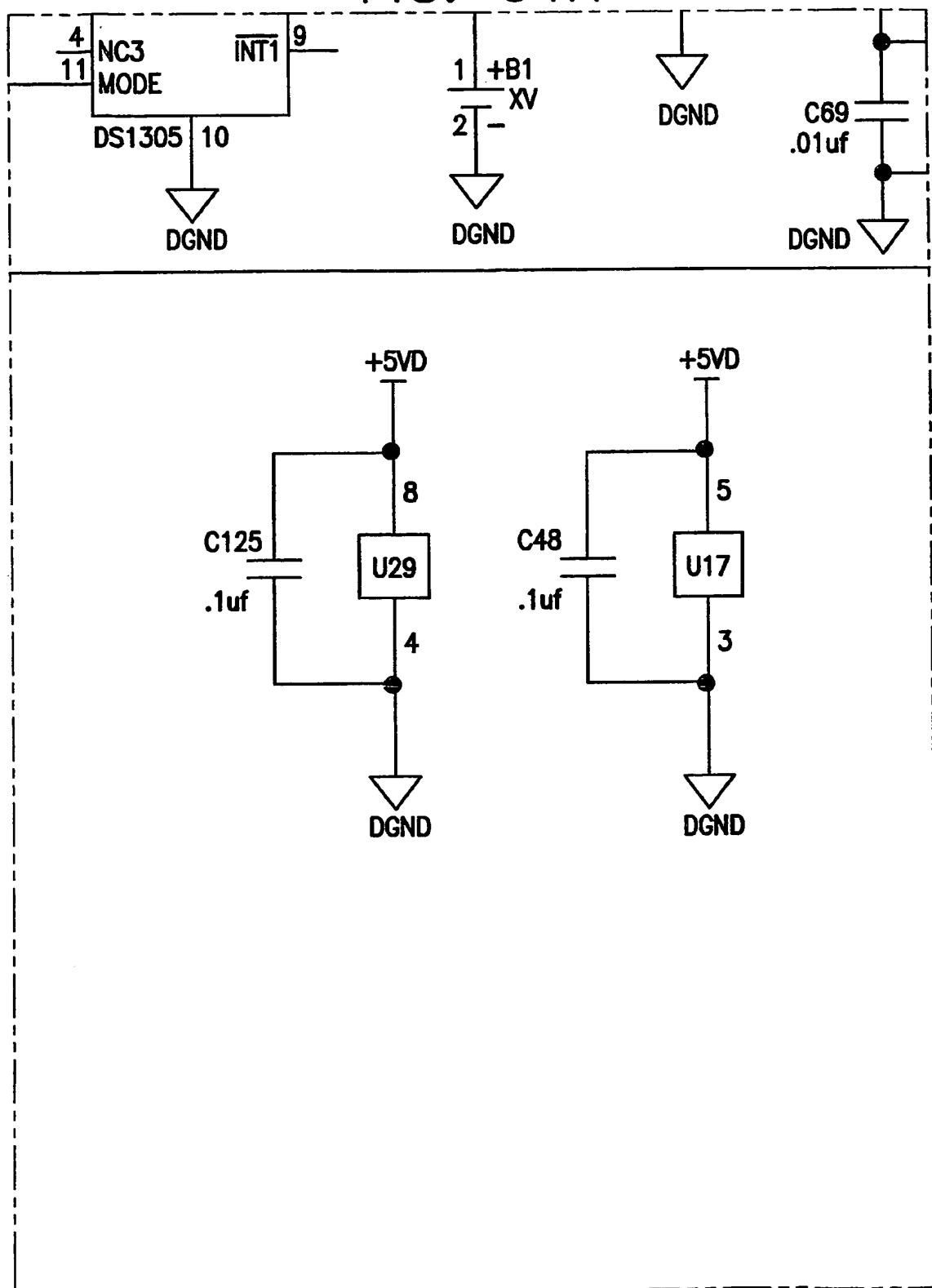
FIG. 64M



REPLACEMENT SHEET

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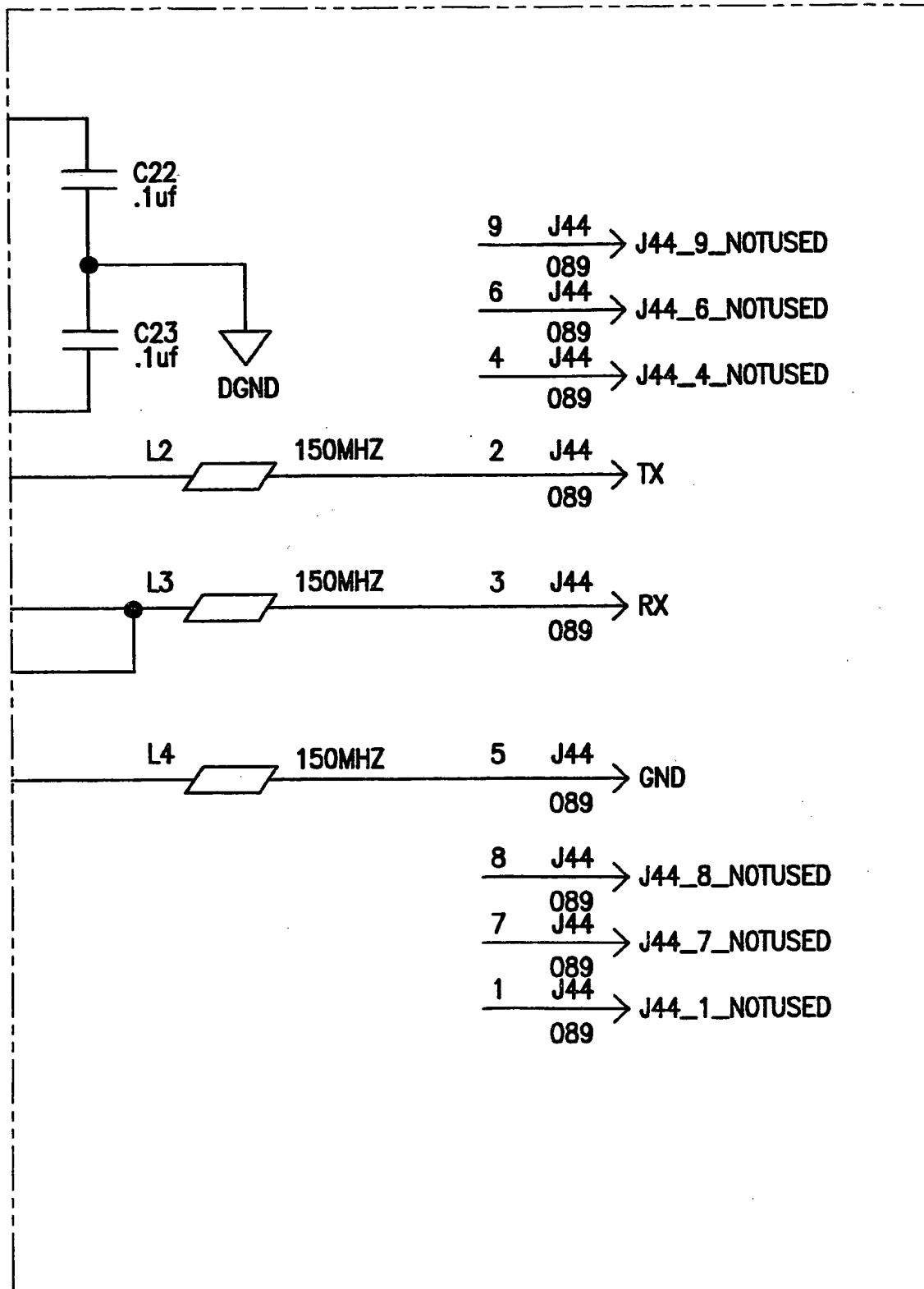
FIG. 64N



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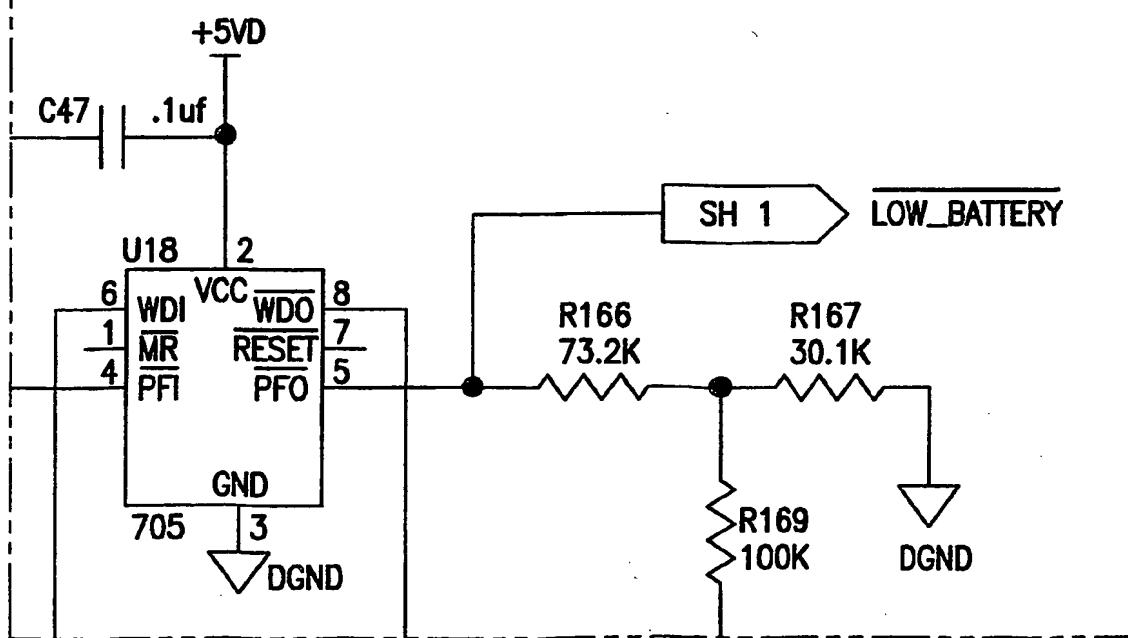
FIG. 640



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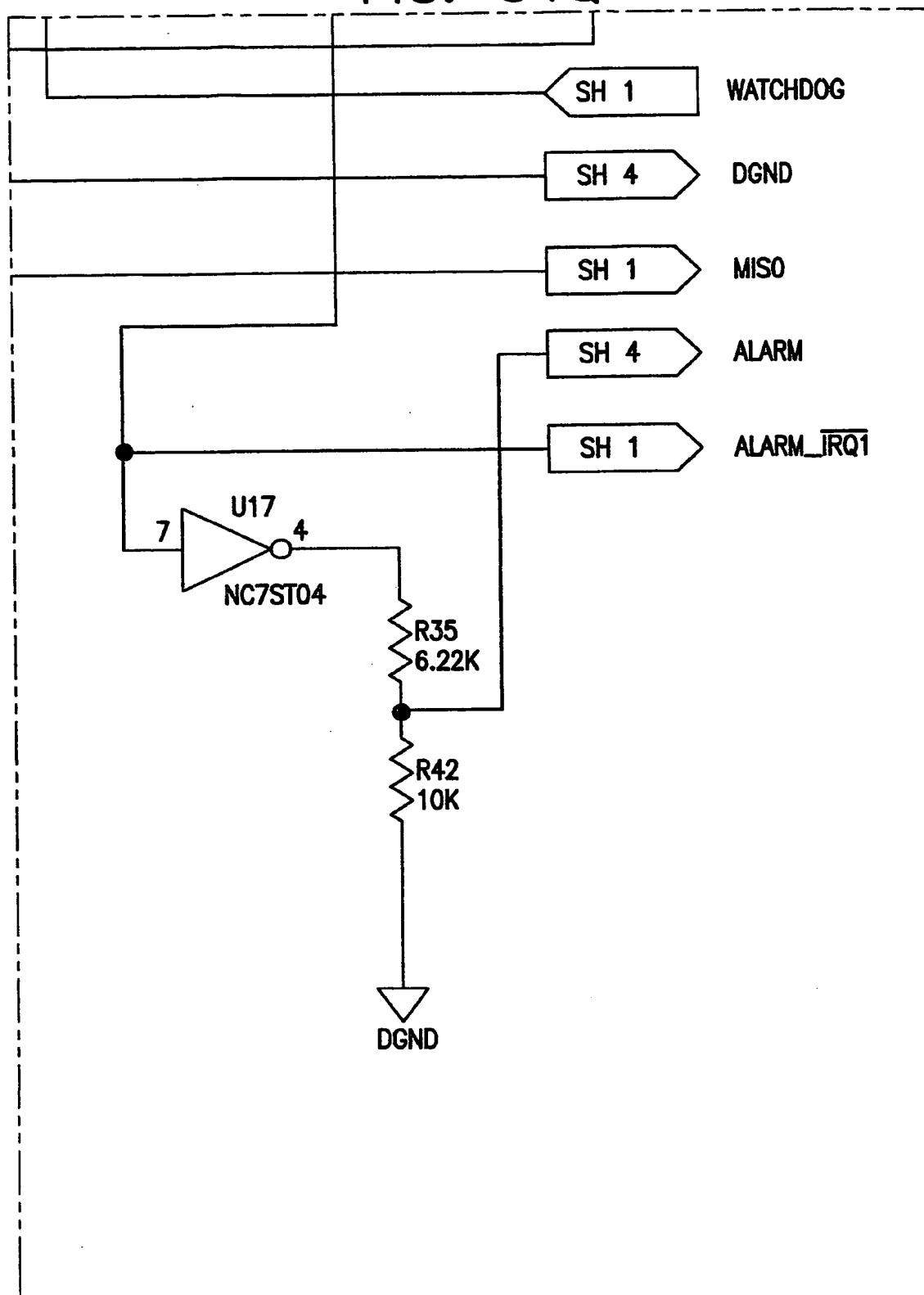
FIG. 64P



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FIG. 64Q



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**FIG. 65**

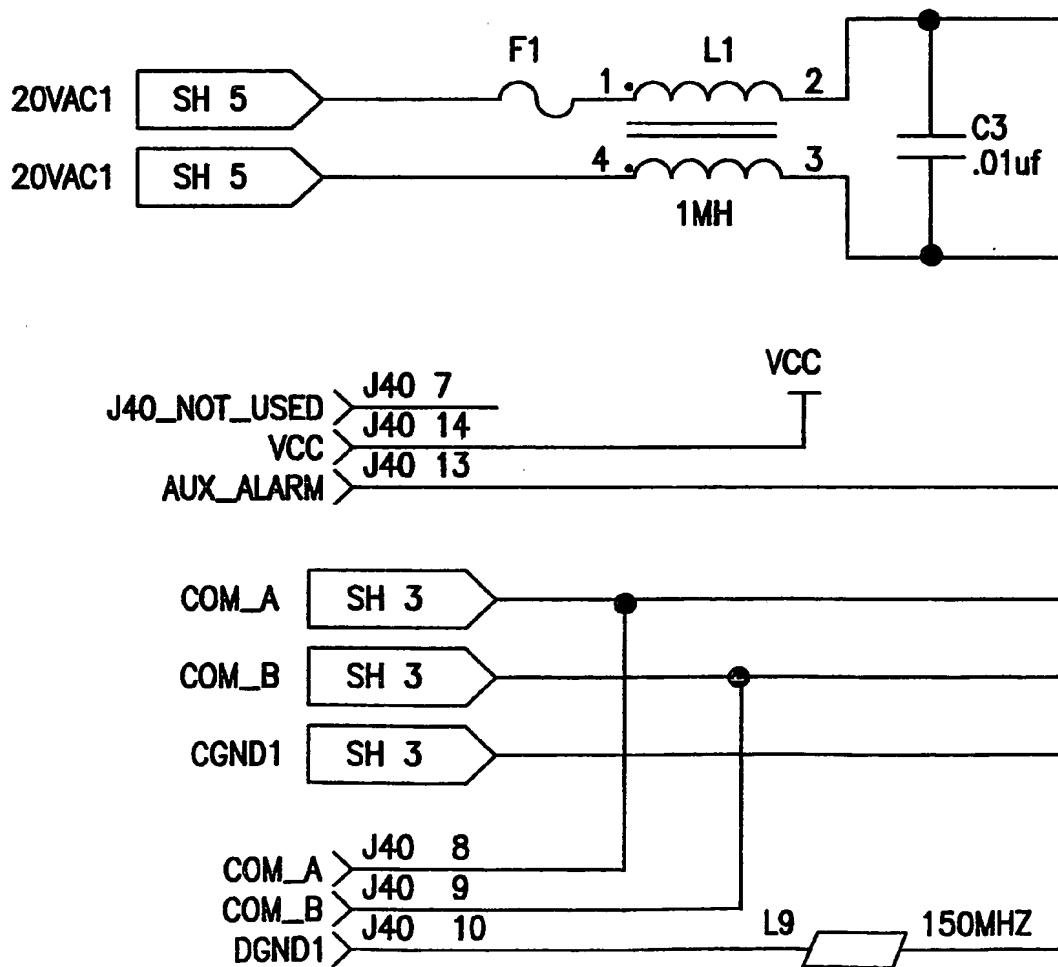
	FIG. 65C	FIG. 65F	FIG. 65H	FIG. 65J	FIG. 65L
FIG. 65A	FIG. 65D	FIG. 65G	FIG. 65I	FIG. 65K	
FIG. 65B	FIG. 65E				

REPLACEMENT SHEET

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FIG. 65A

J40\_1\_NOT\_USED > J40 1  
 J40\_2\_NOT\_USED > J40 2  
 J40\_3\_NOT\_USED > J40 3  
 J40\_4\_NOT\_USED > J40 4  
 J40\_5\_NOT\_USED > J40 5  
 J40\_6\_NOT\_USED > J40 6



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FIG. 65B

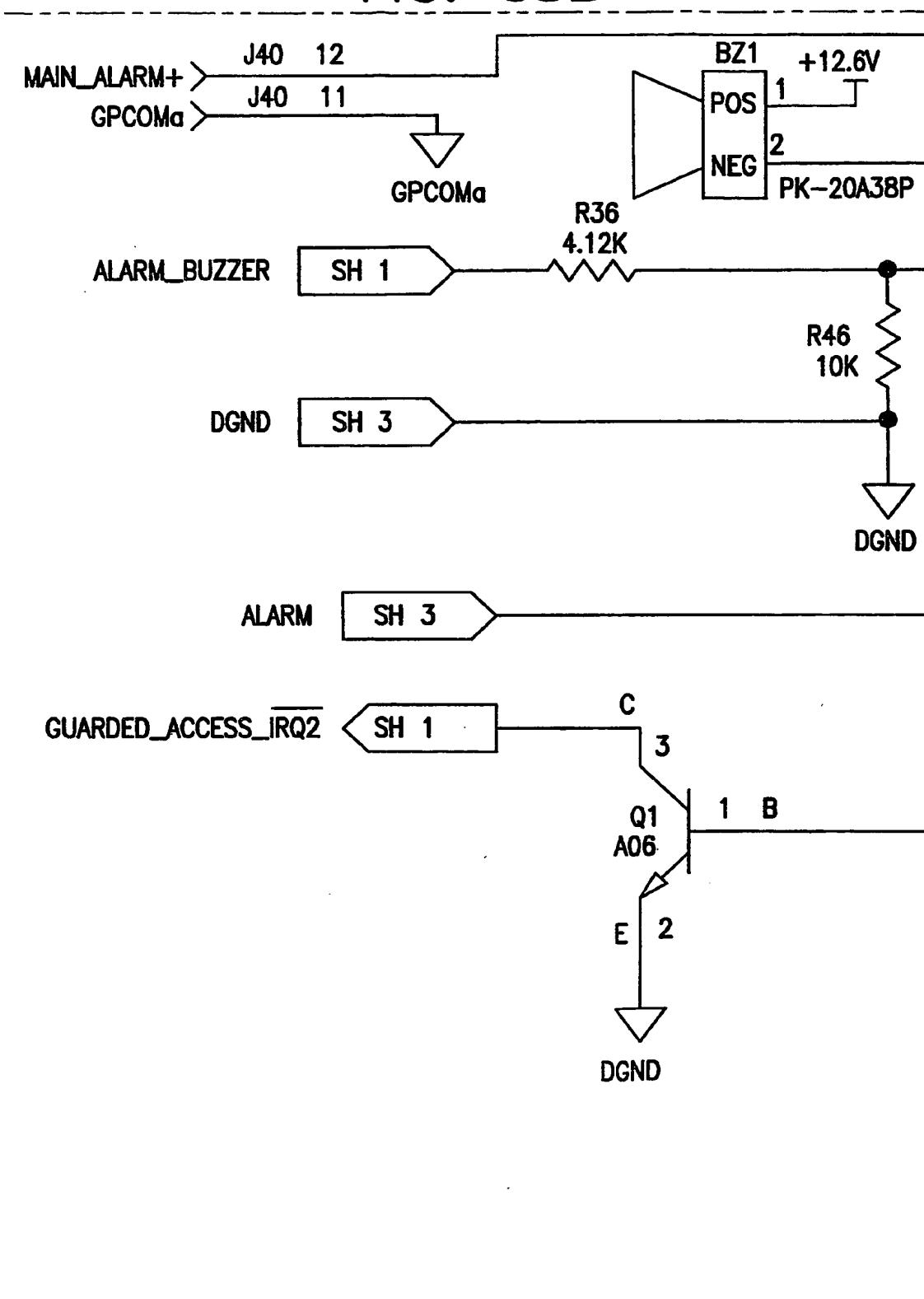
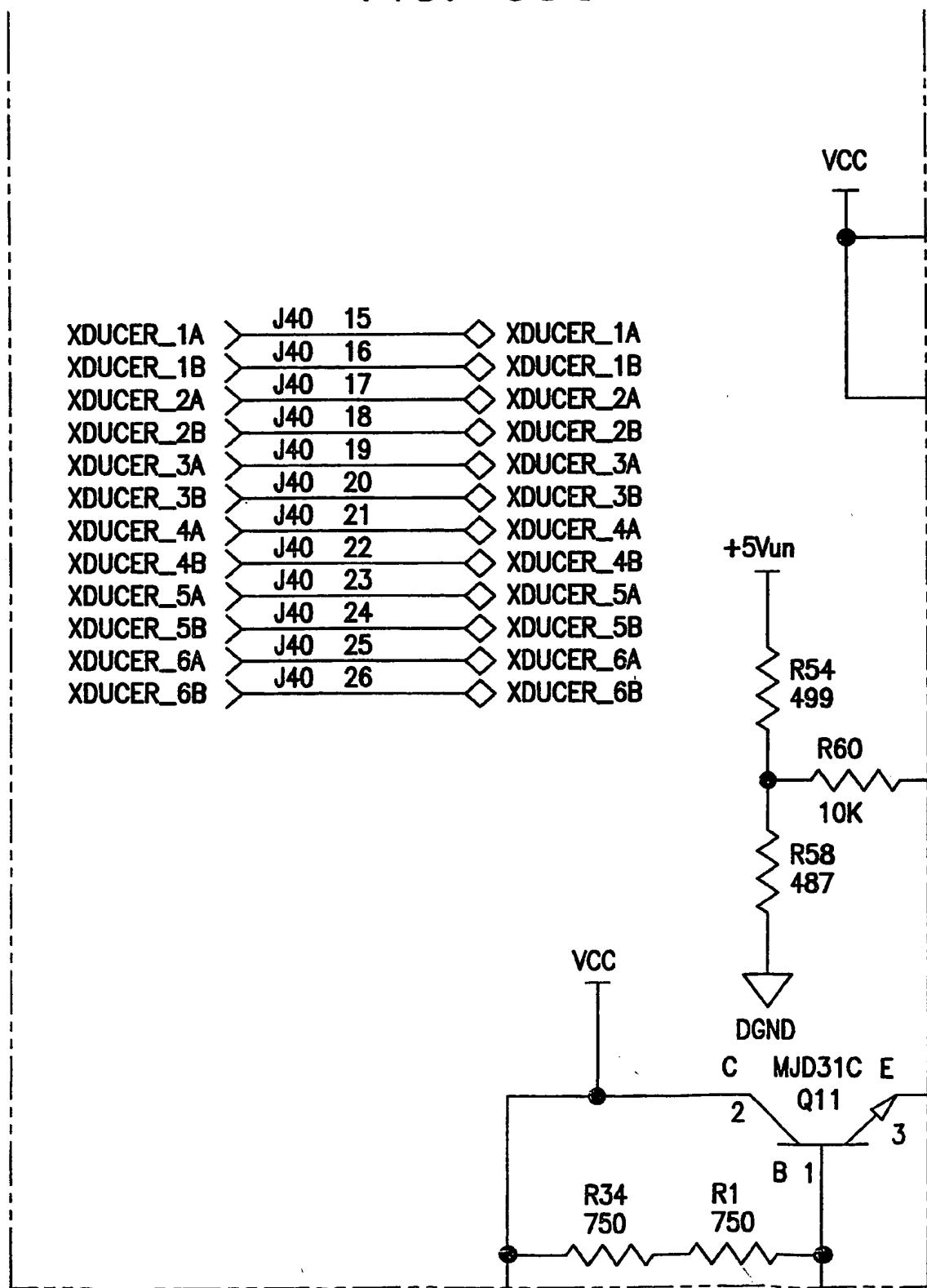


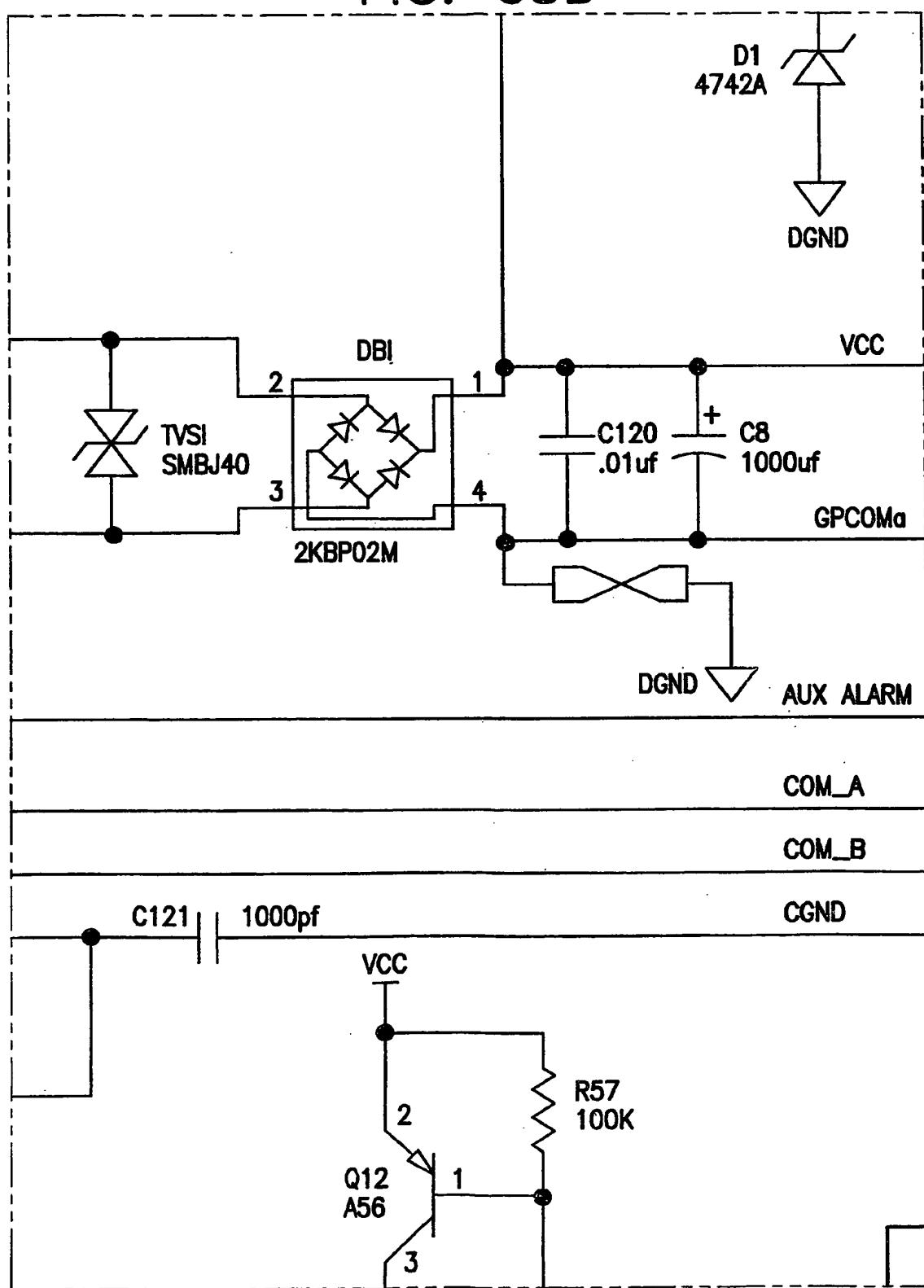
FIG. 65C



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FIG. 65D



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FIG. 65E

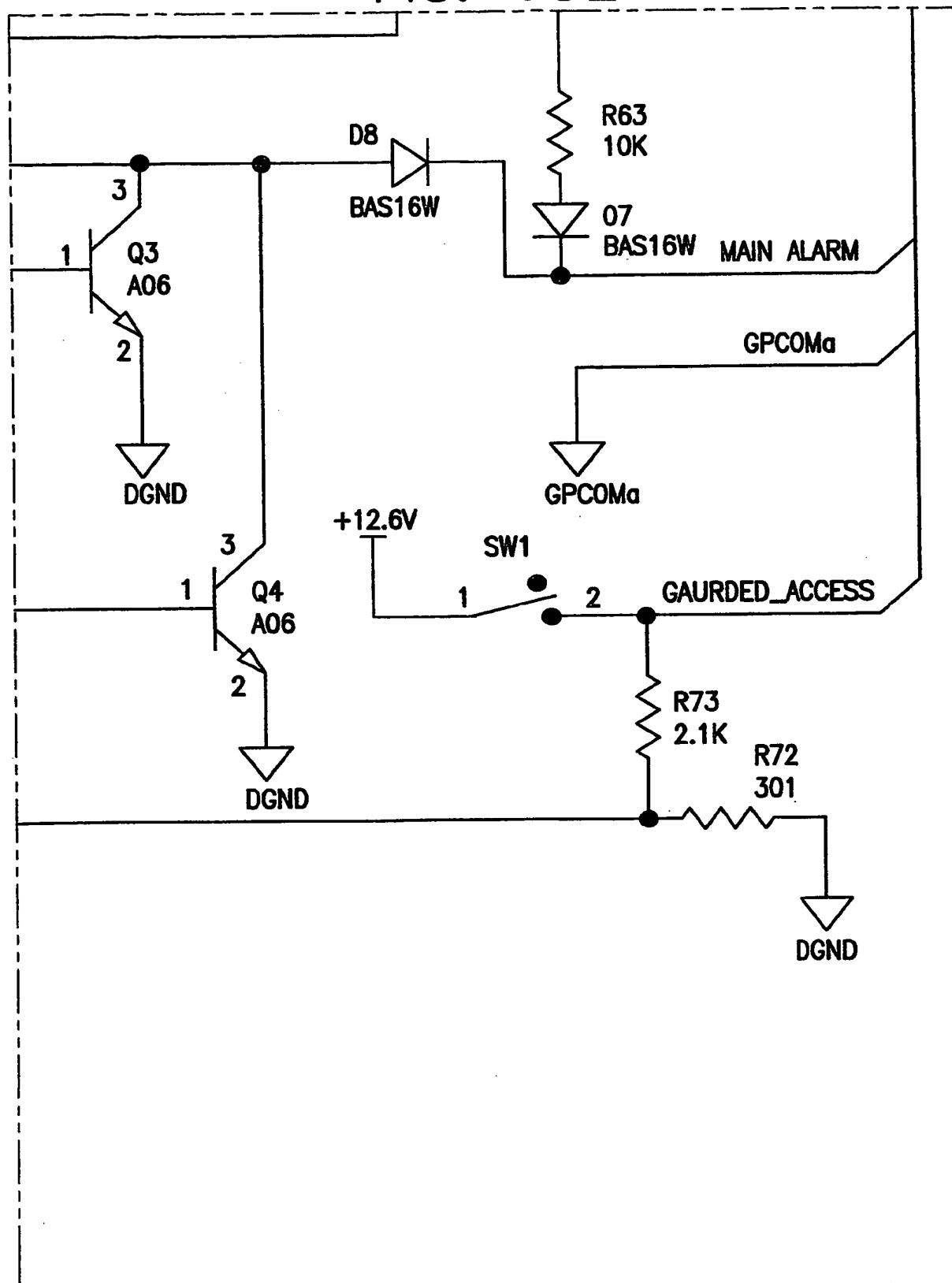


FIG. 65F

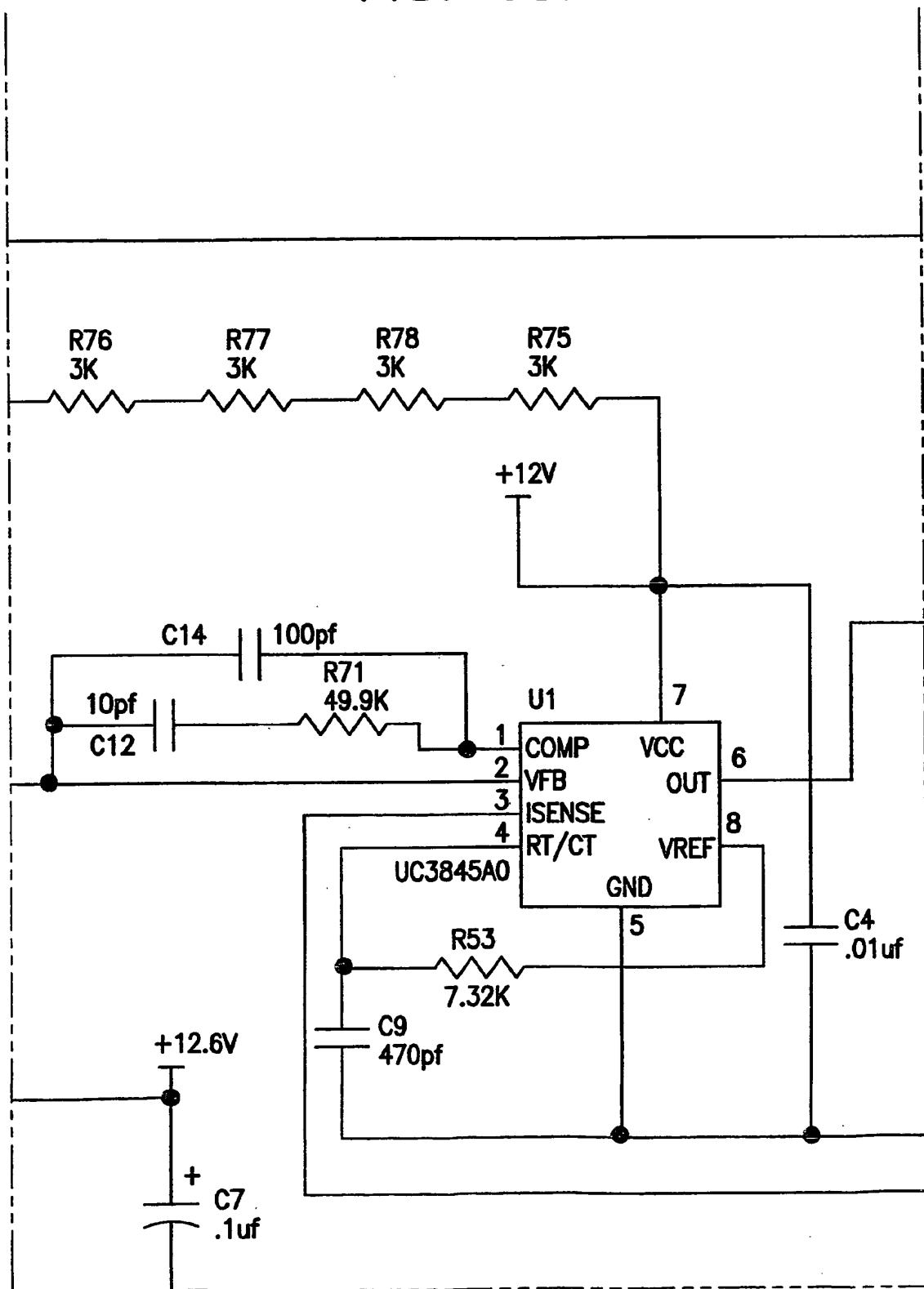


FIG. 65G

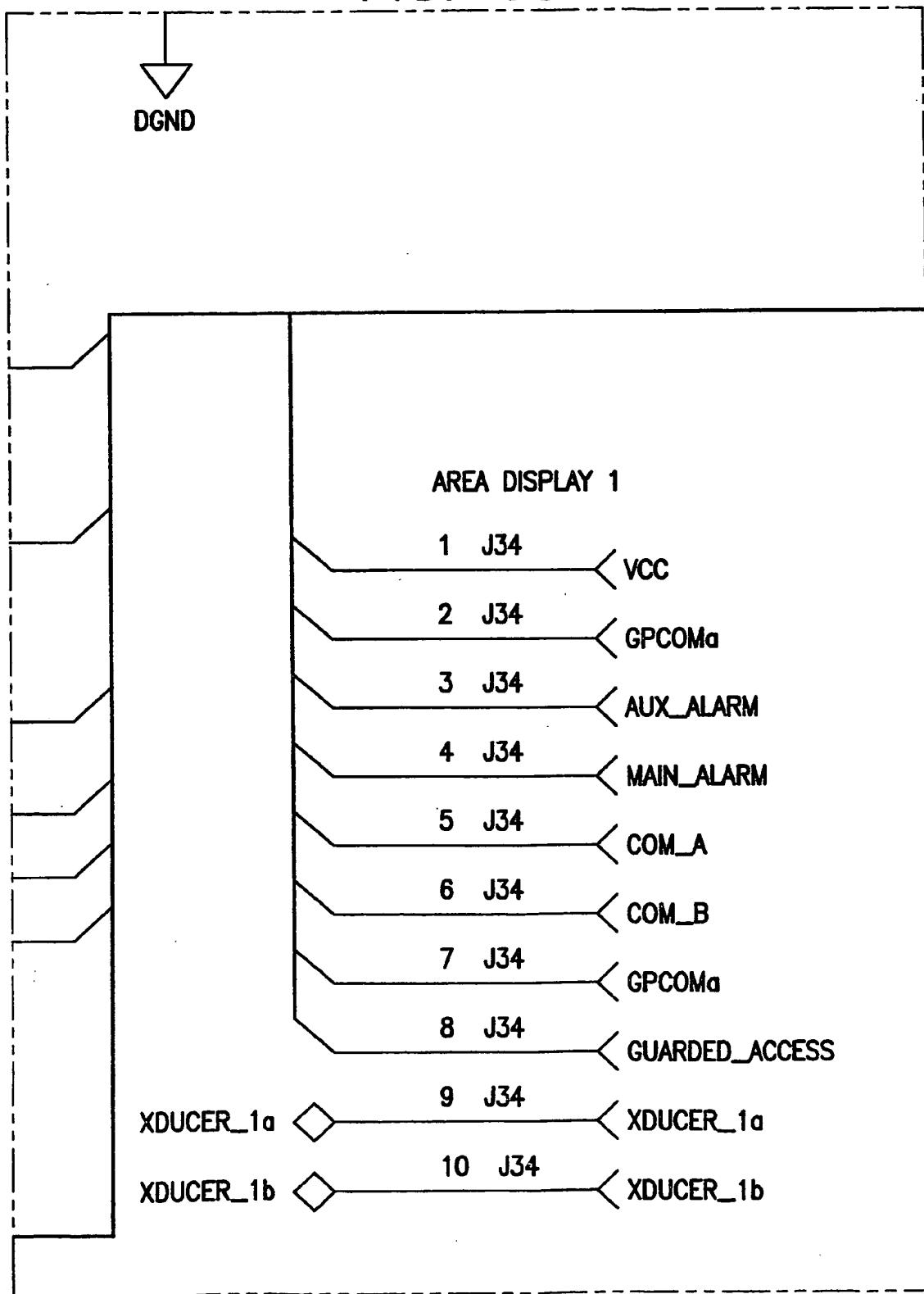
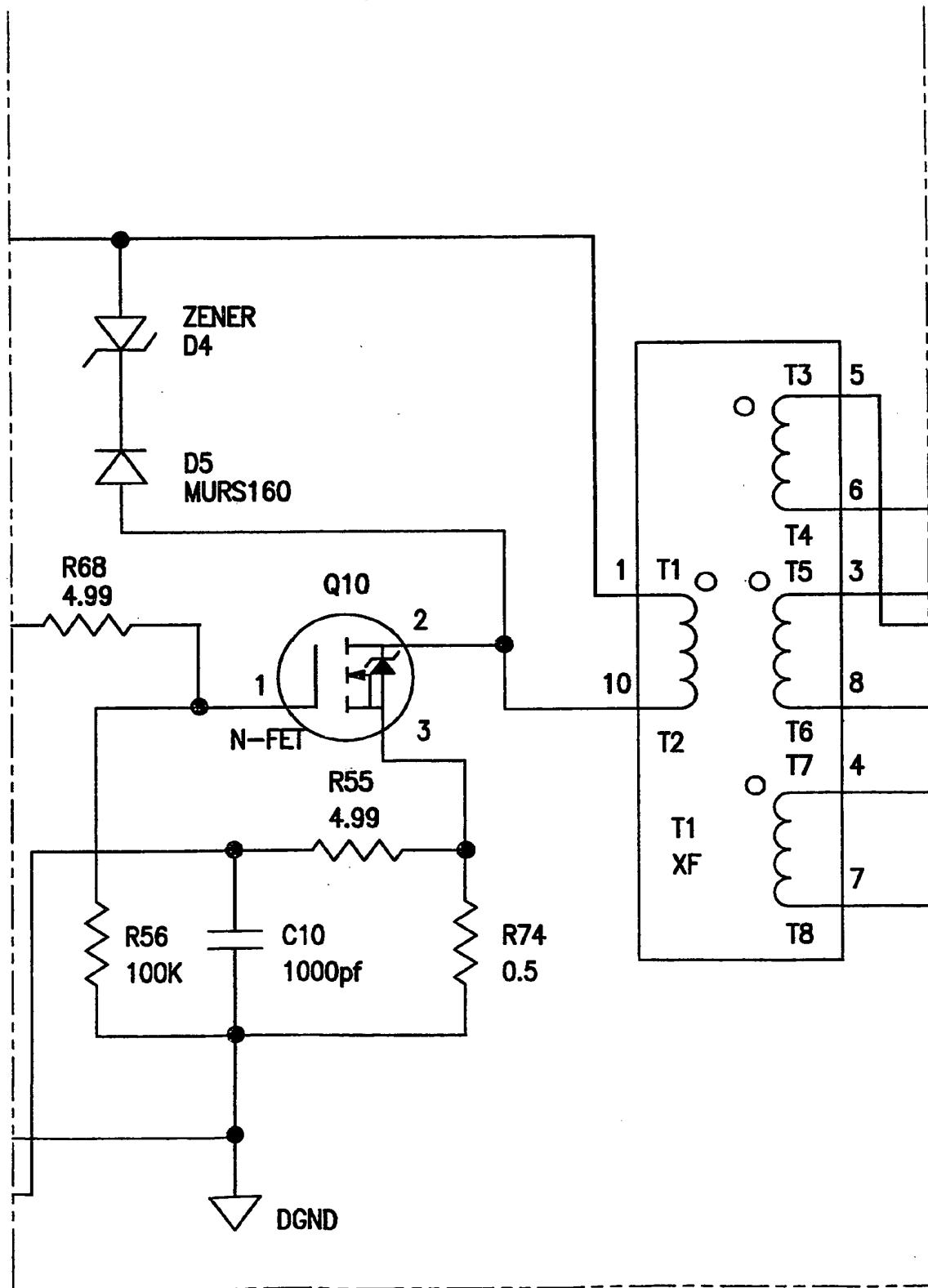


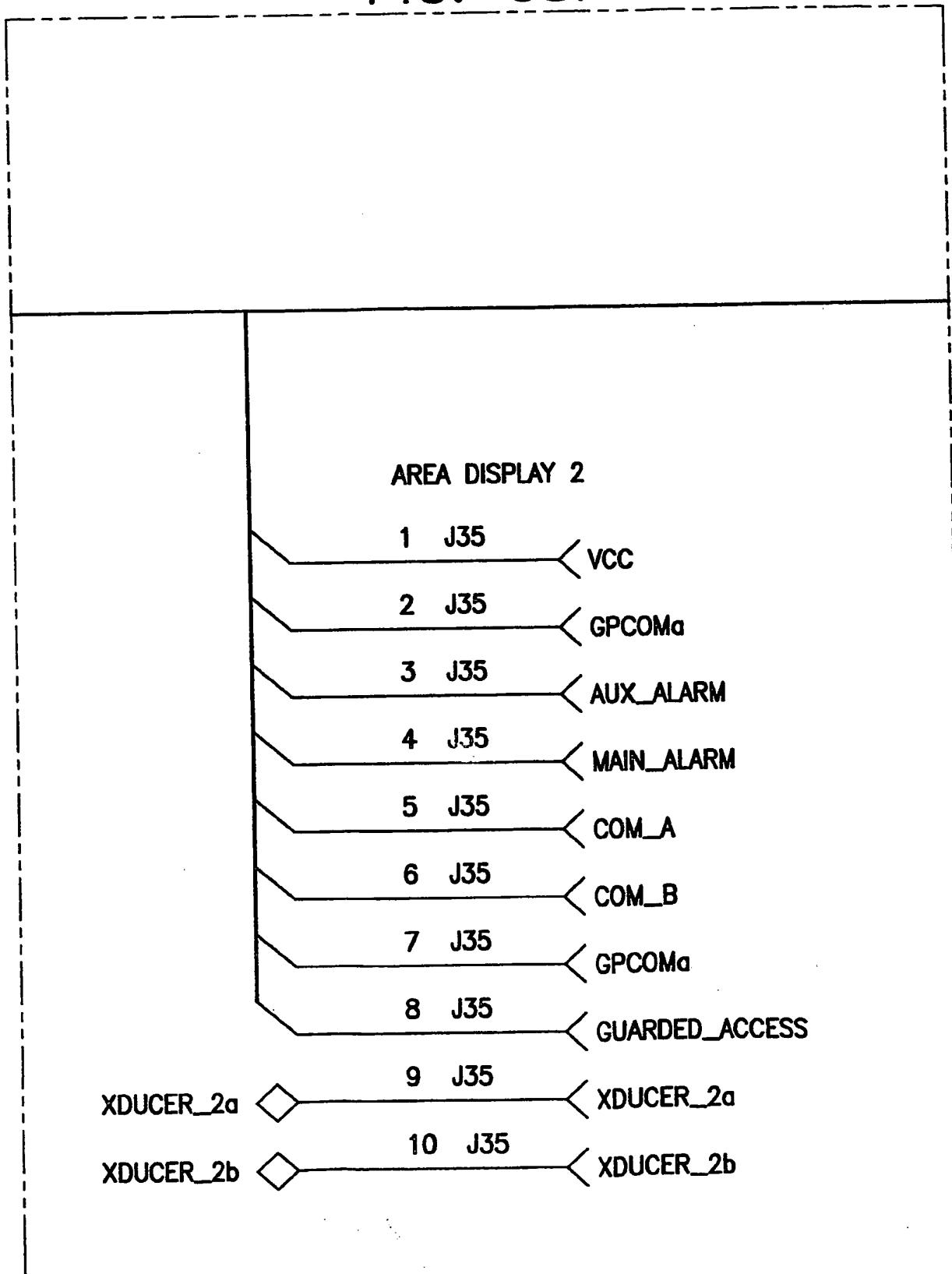
FIG. 65H



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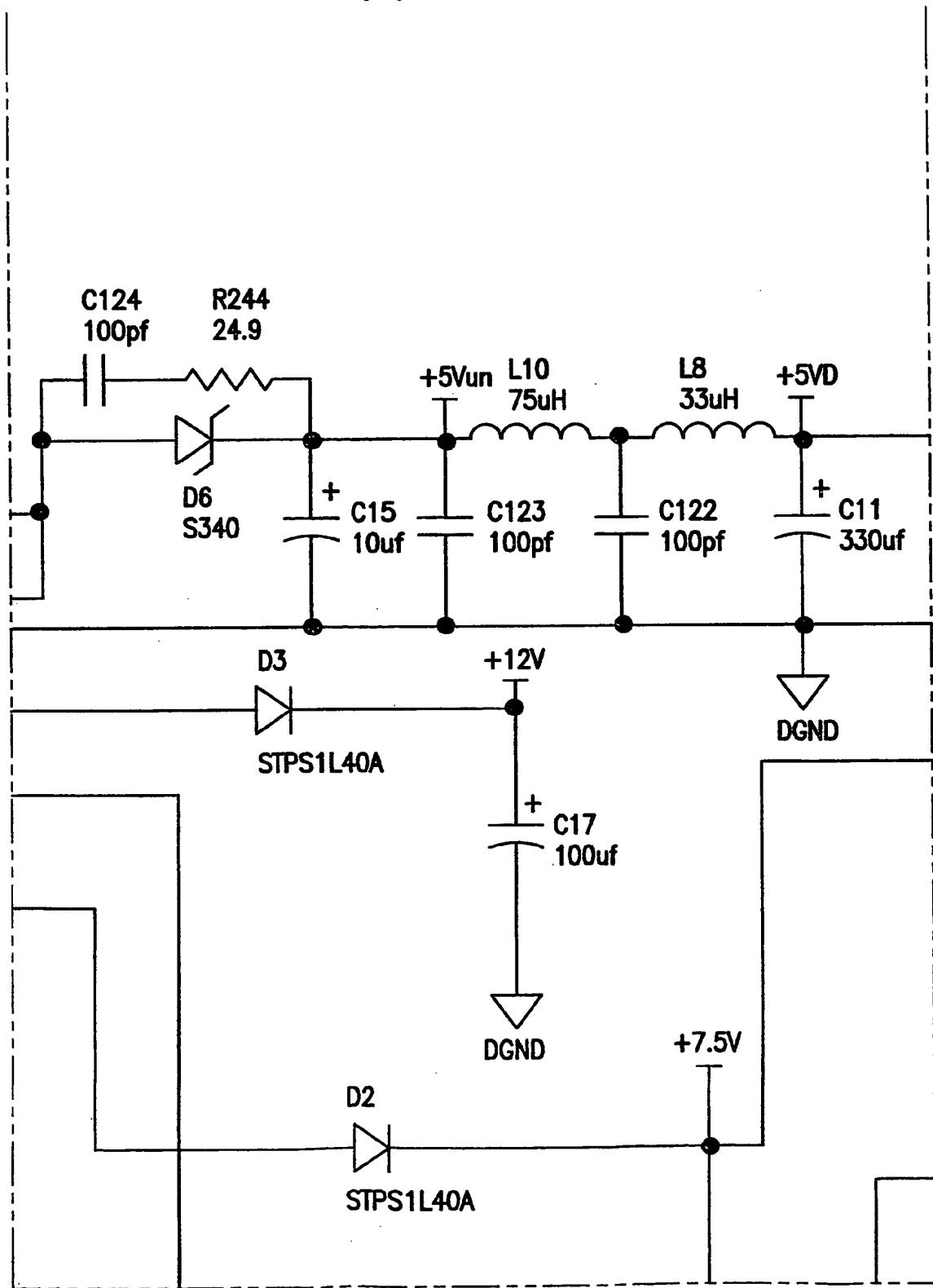
FIG. 65I



REPLACEMENT SHEET

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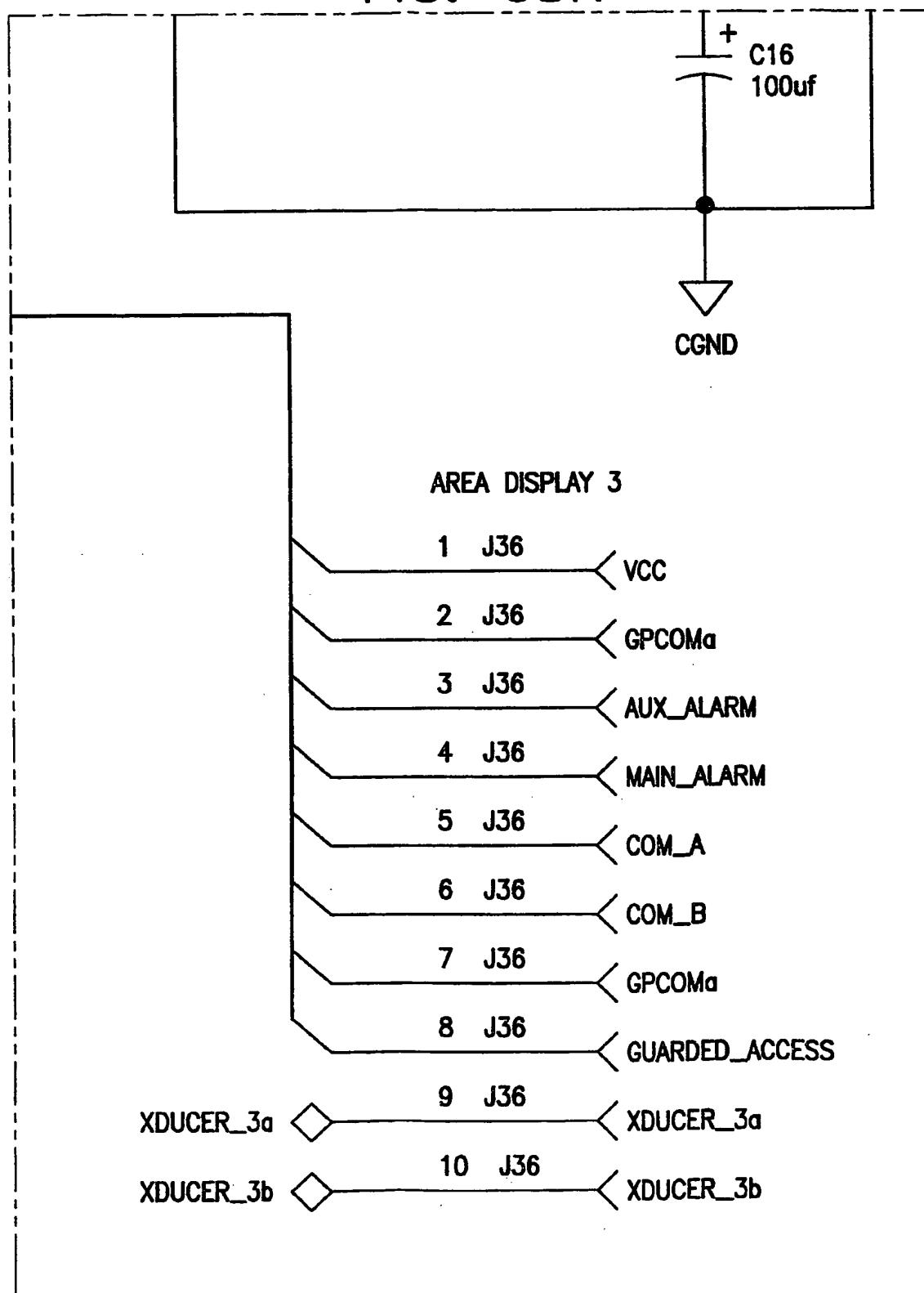
FIG. 65J



REPLACEMENT SHEET

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FIG. 65K



**REPLACEMENT SHEET**

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**FIG. 65L**

SH 1 → +5VD

SH 1 → DGND

SH 3 → +7.5V

SH 3 → CGND

REPLACEMENT SHEET

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FIG. 66

	FIG. 66E	FIG. 66J	FIG. 66O	FIG. 66S	FIG. 66W
FIG. 66A	FIG. 66F	FIG. 66K	FIG. 66P	FIG. 66T	FIG. 66X
FIG. 66B	FIG. 66G	FIG. 66L	FIG. 66Q	FIG. 66U	
FIG. 66C	FIG. 66H	FIG. 66M	FIG. 66R	FIG. 66V	
FIG. 66D	FIG. 66I	FIG. 66N			

REPLACEMENT SHEET

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FIG. 66A

LOCAL ALARM 11 > J32 9  
LOCAL ALARM 12 > J32 10  
LOCAL ALARM 13 > J32 11  
LOCAL ALARM 14 > J32 12

LOCAL ALARM 15 > J32 13  
LOCAL ALARM 16 > J32 14  
LOCAL ALARM 17 > J32 15  
LOCAL ALARM 18 > J32 16

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FIG. 66B

LOCAL ALARM 19	→ J32 17
LOCAL ALARM 20	→ J32 18
LOCAL ALARM 30	→ J32 19
LOCAL ALARM 29	→ J32 20

LOCAL ALARM 28	→ J32 21
LOCAL ALARM 27	→ J32 22
LOCAL ALARM 26	→ J32 23
LOCAL ALARM 25	→ J32 24

LOCAL ALARM 24	→ J32 25
LOCAL ALARM 23	→ J32 26
LOCAL ALARM 22	→ J33 1
LOCAL ALARM 21	→ J33 2

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FIG. 66C

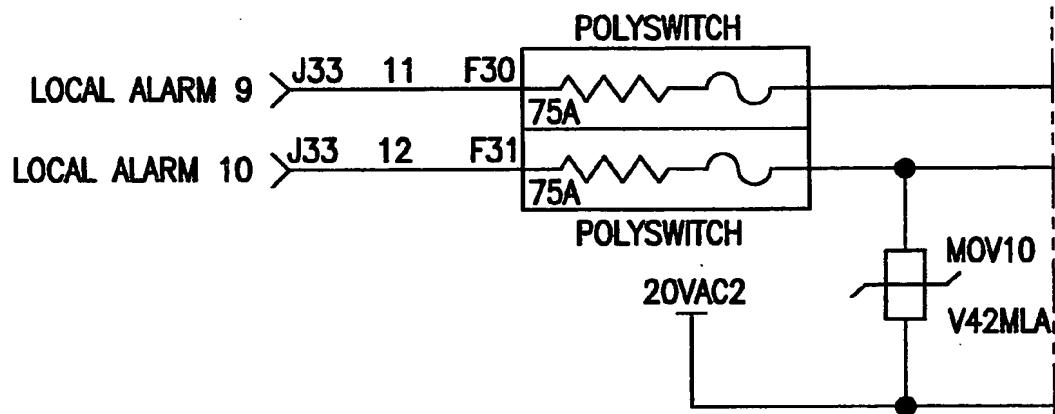
LOCAL ALARM 1 > J33 3  
LOCAL ALARM 2 > J33 4  
LOCAL ALARM 3 > J33 5  
LOCAL ALARM 4 > J33 6

LOCAL ALARM 5 > J33 7  
LOCAL ALARM 6 > J33 8  
LOCAL ALARM 7 > J33 9  
LOCAL ALARM 8 > J33 10

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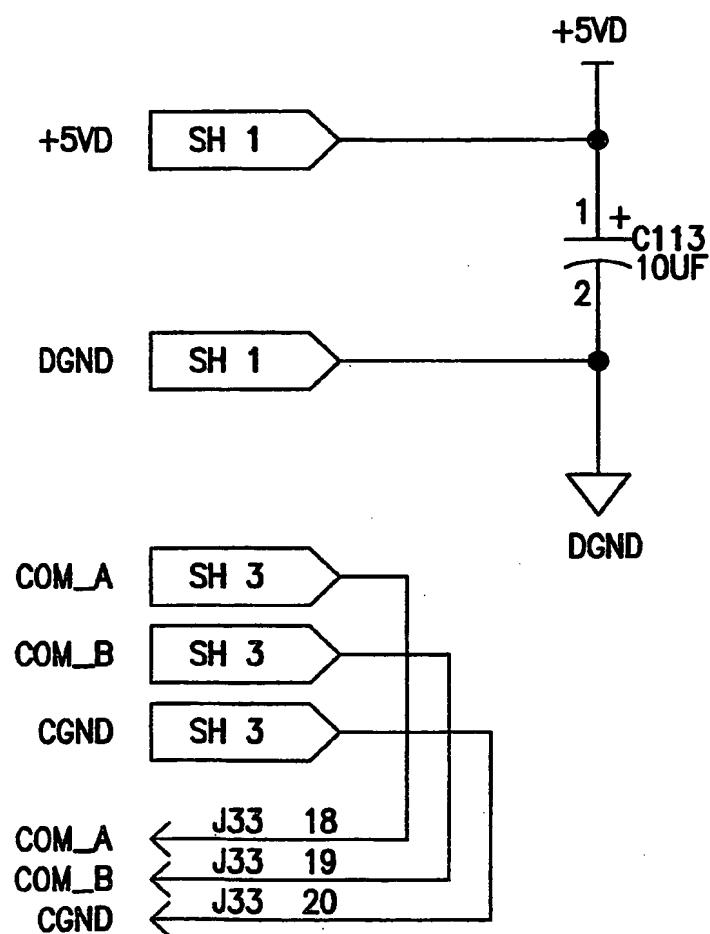
FIG. 66D



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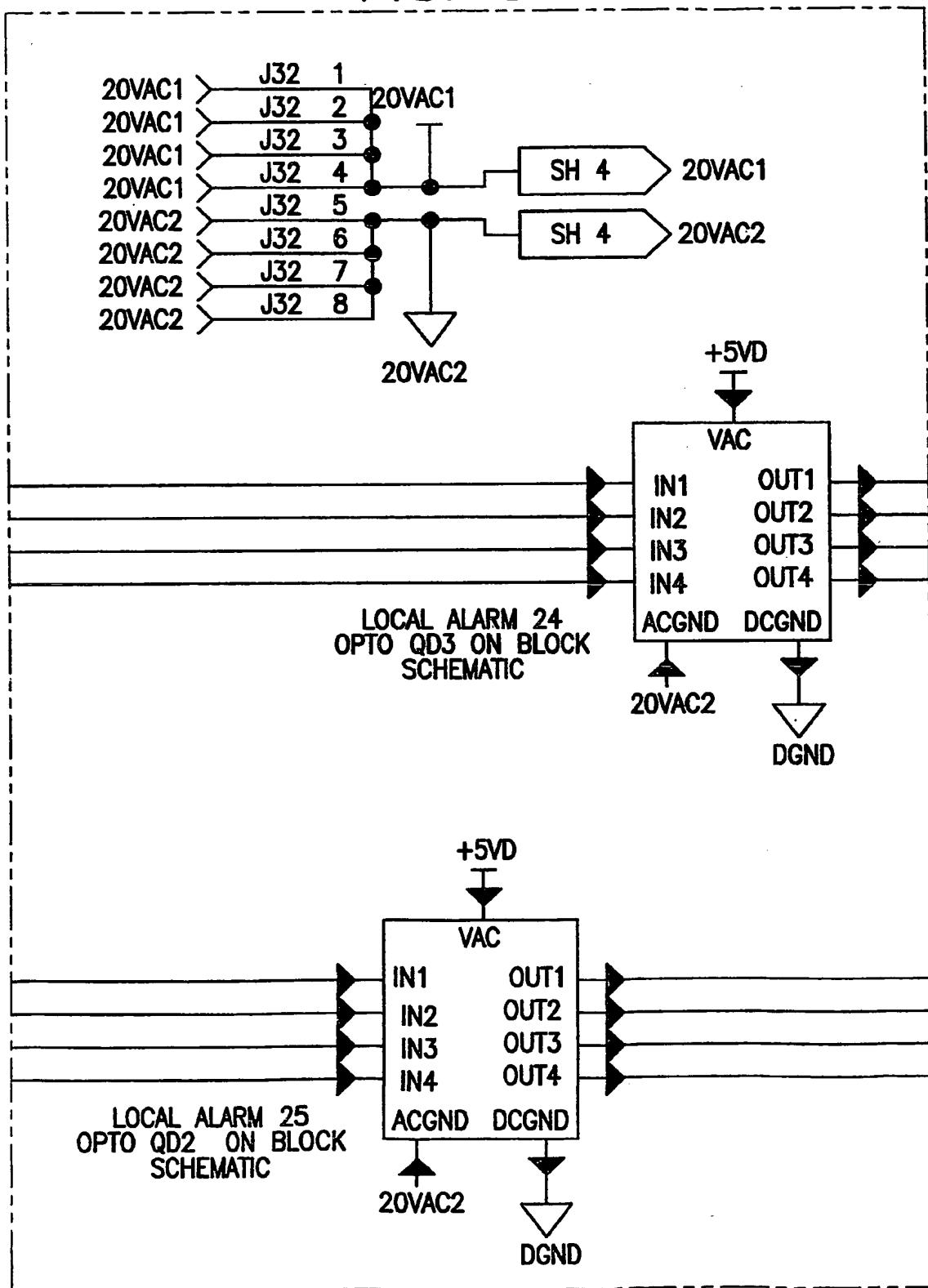
FIG. 66E



REPLACEMENT SHEET

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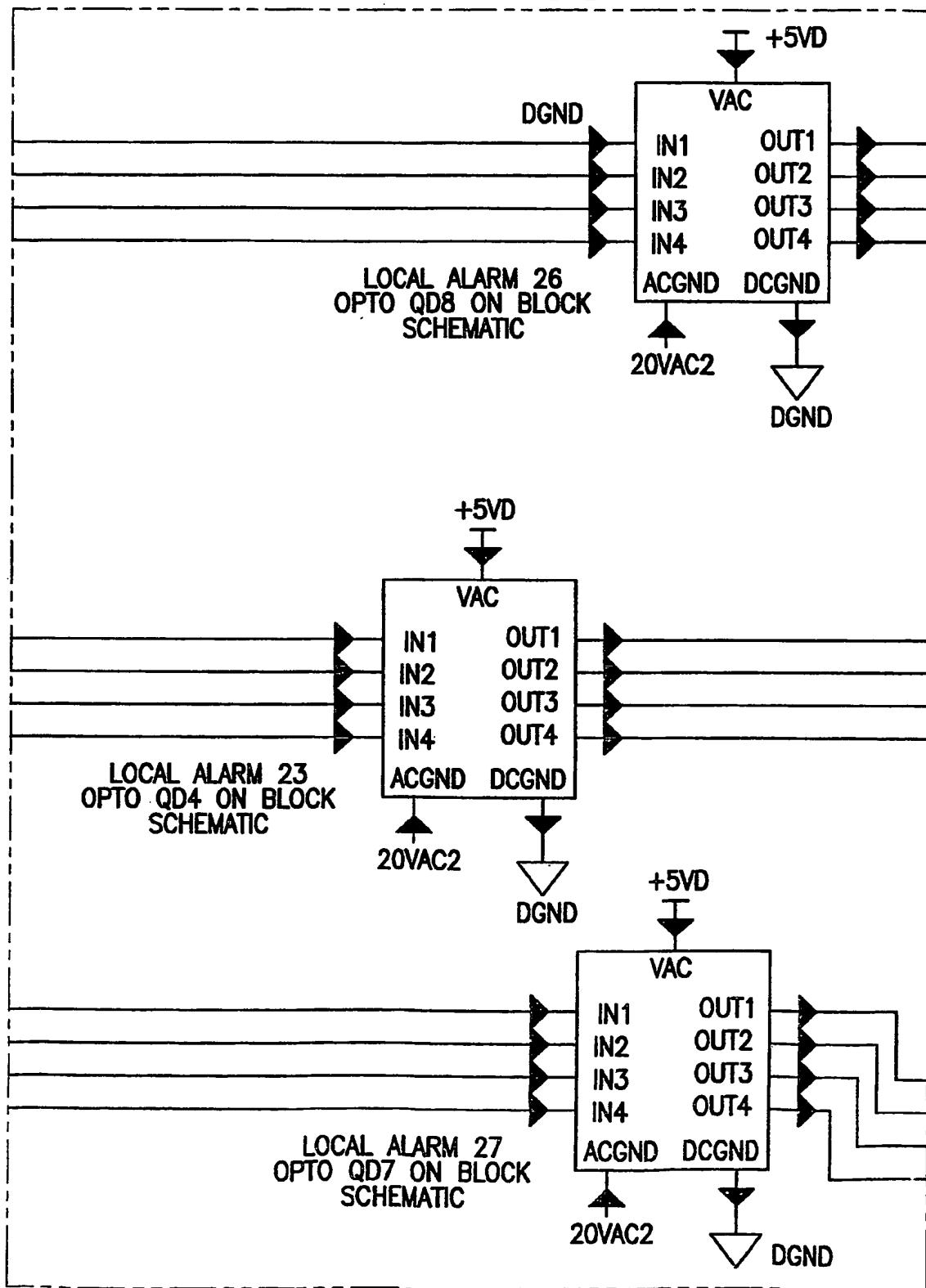
FIG. 66F



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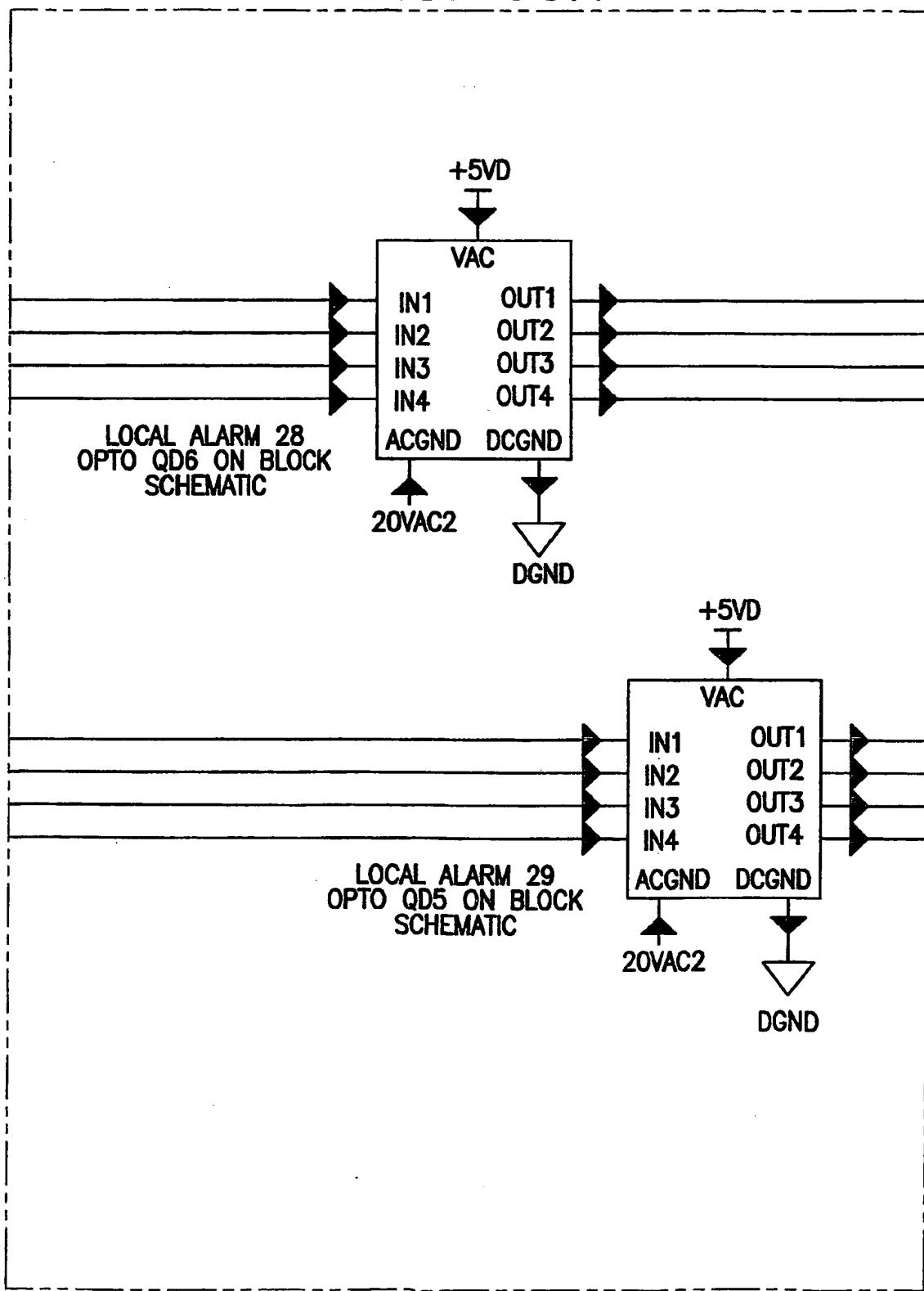
FIG. 66G



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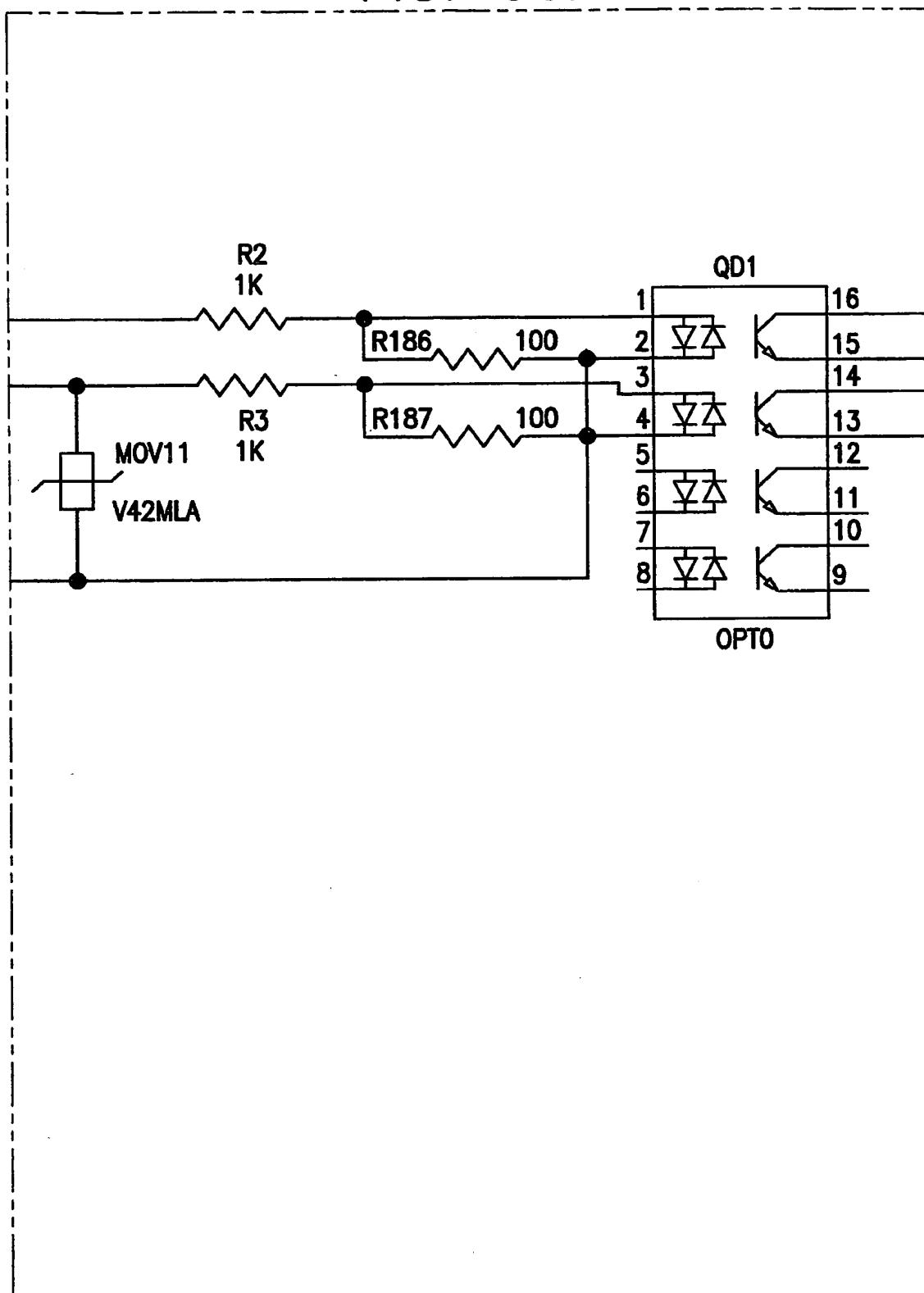
FIG. 66H



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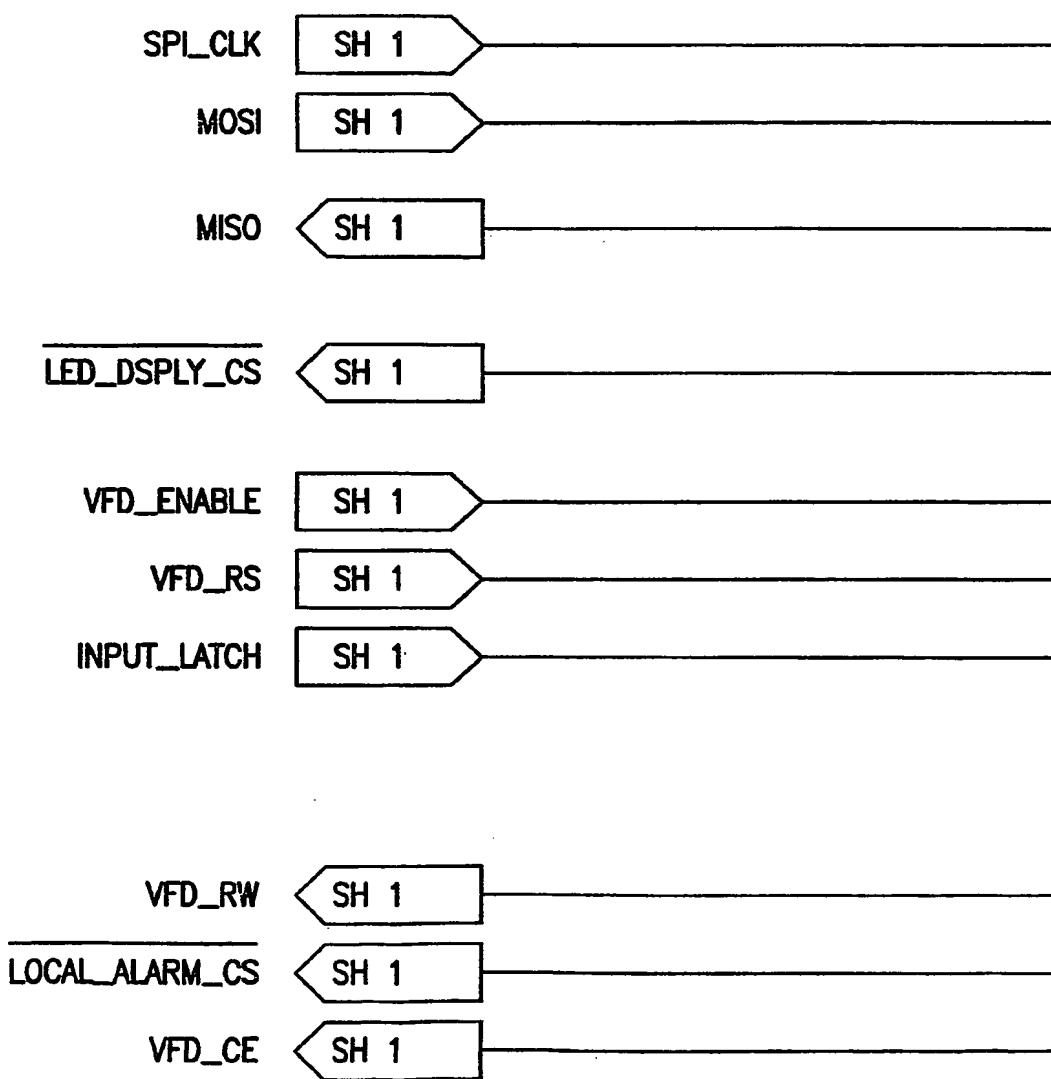
FIG. 66I



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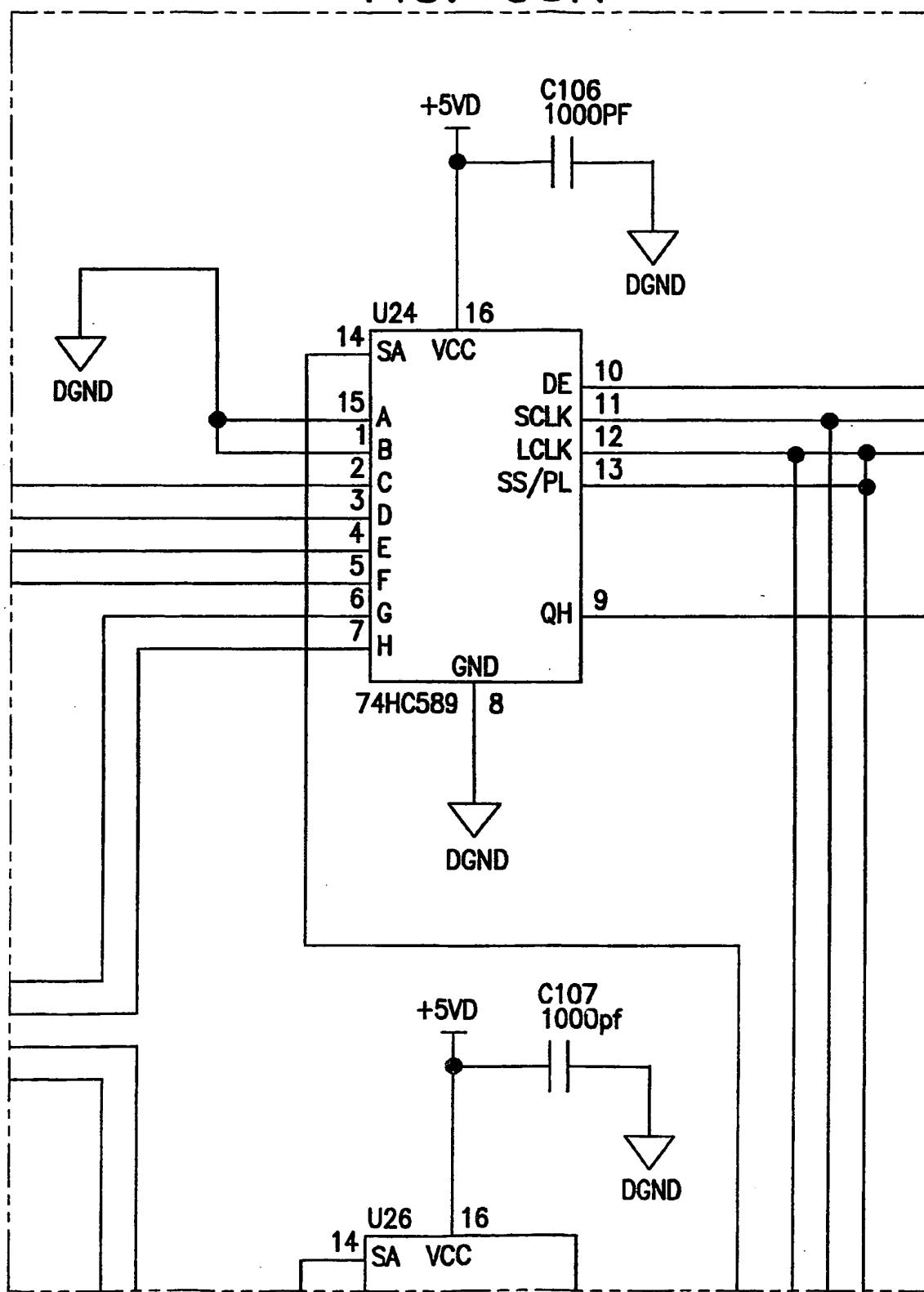
FIG. 66J



## **REPLACEMENT SHEET**

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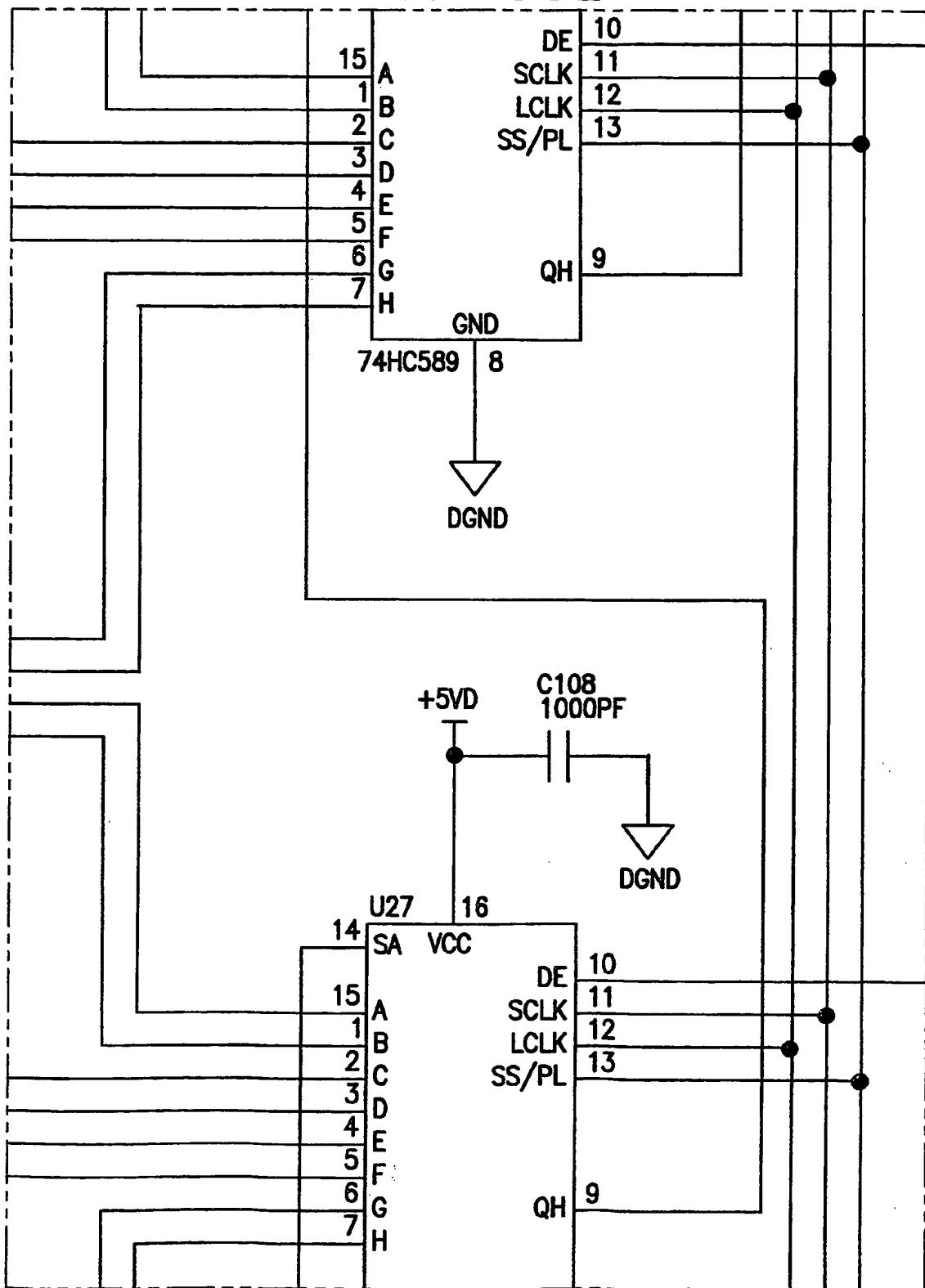
FIG. 66K



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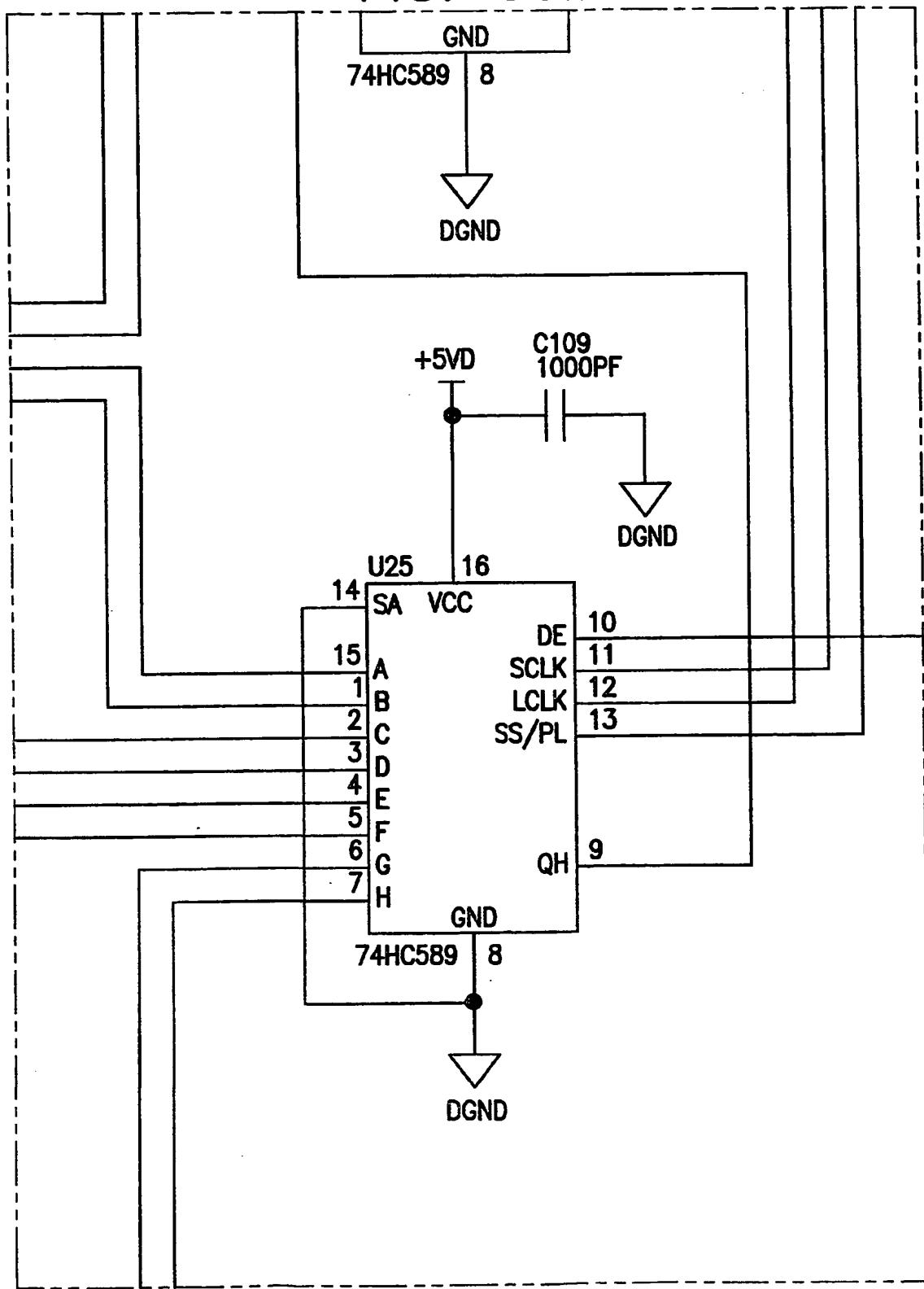
FIG. 66L



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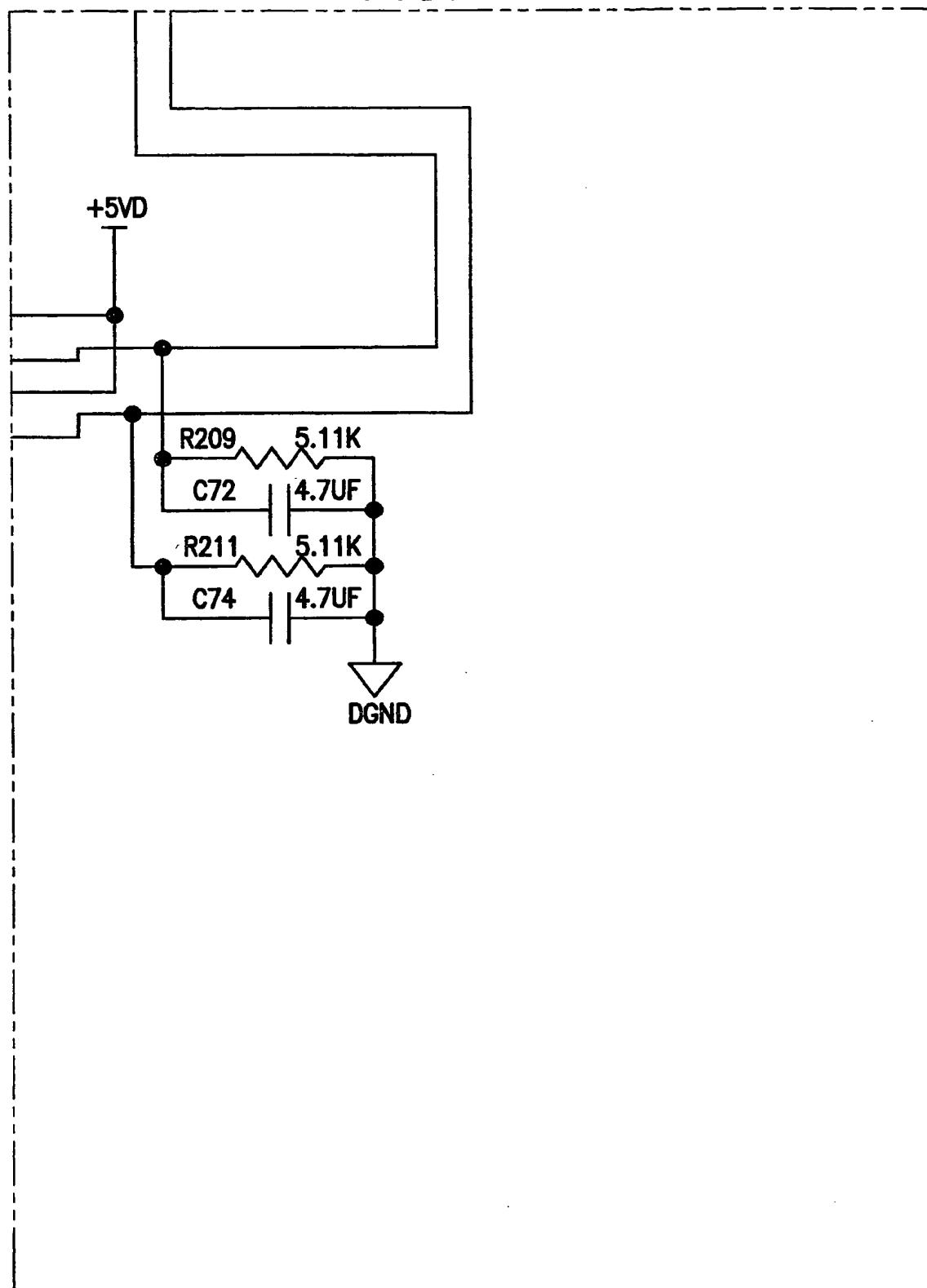
FIG. 66M



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FIG. 66N



REPLACEMENT SHEET

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FIG. 660

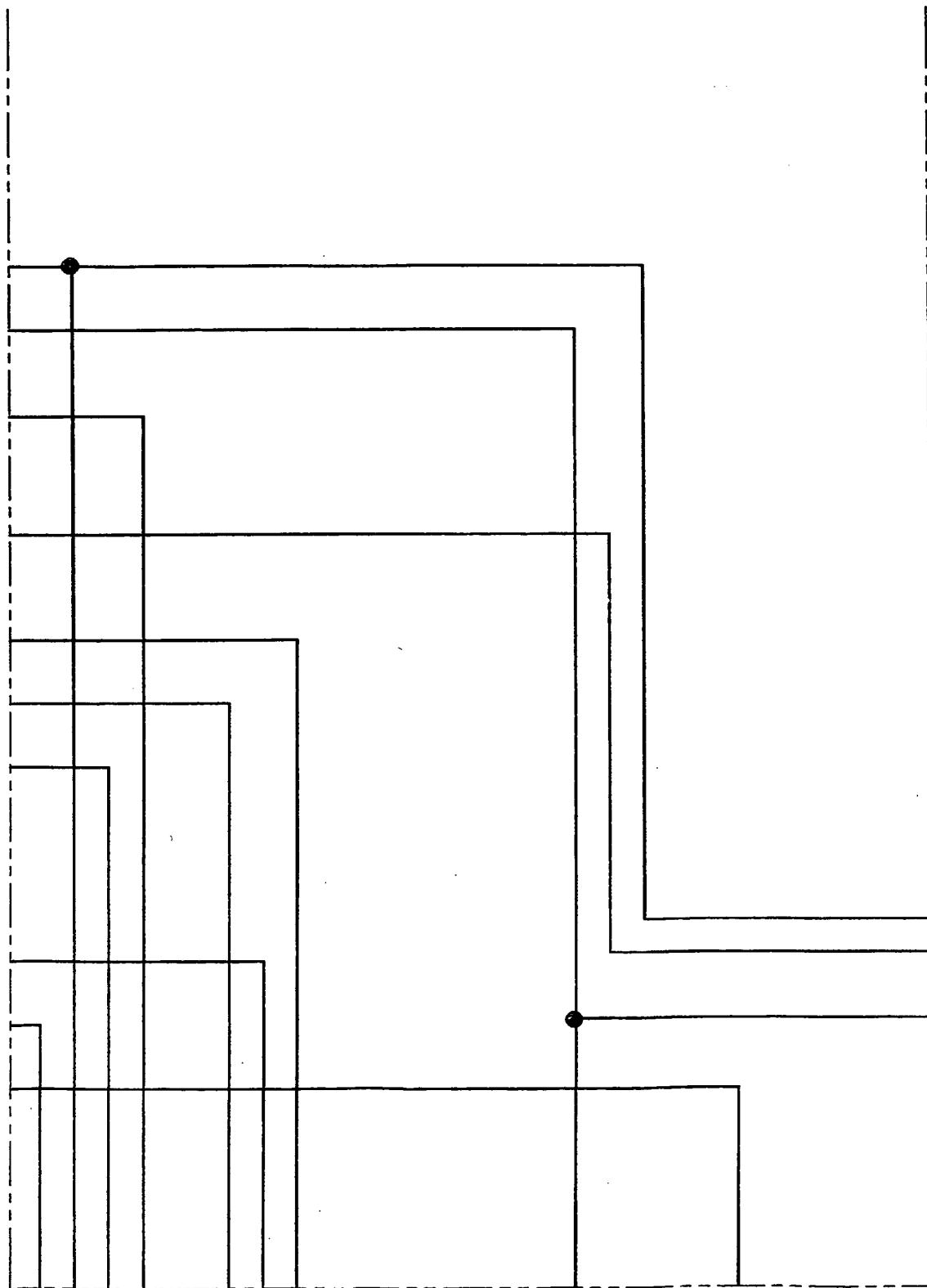


FIG. 66P

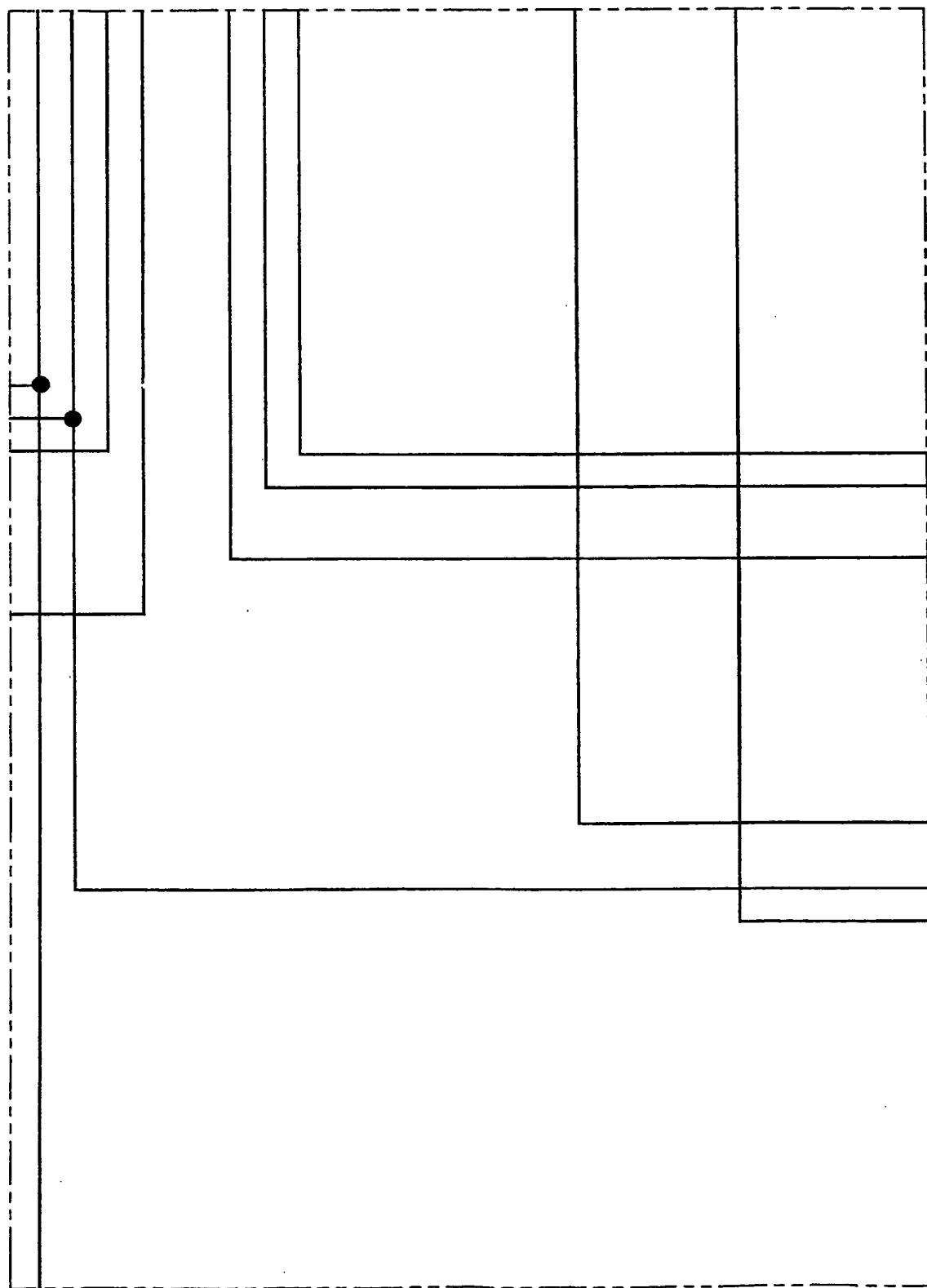
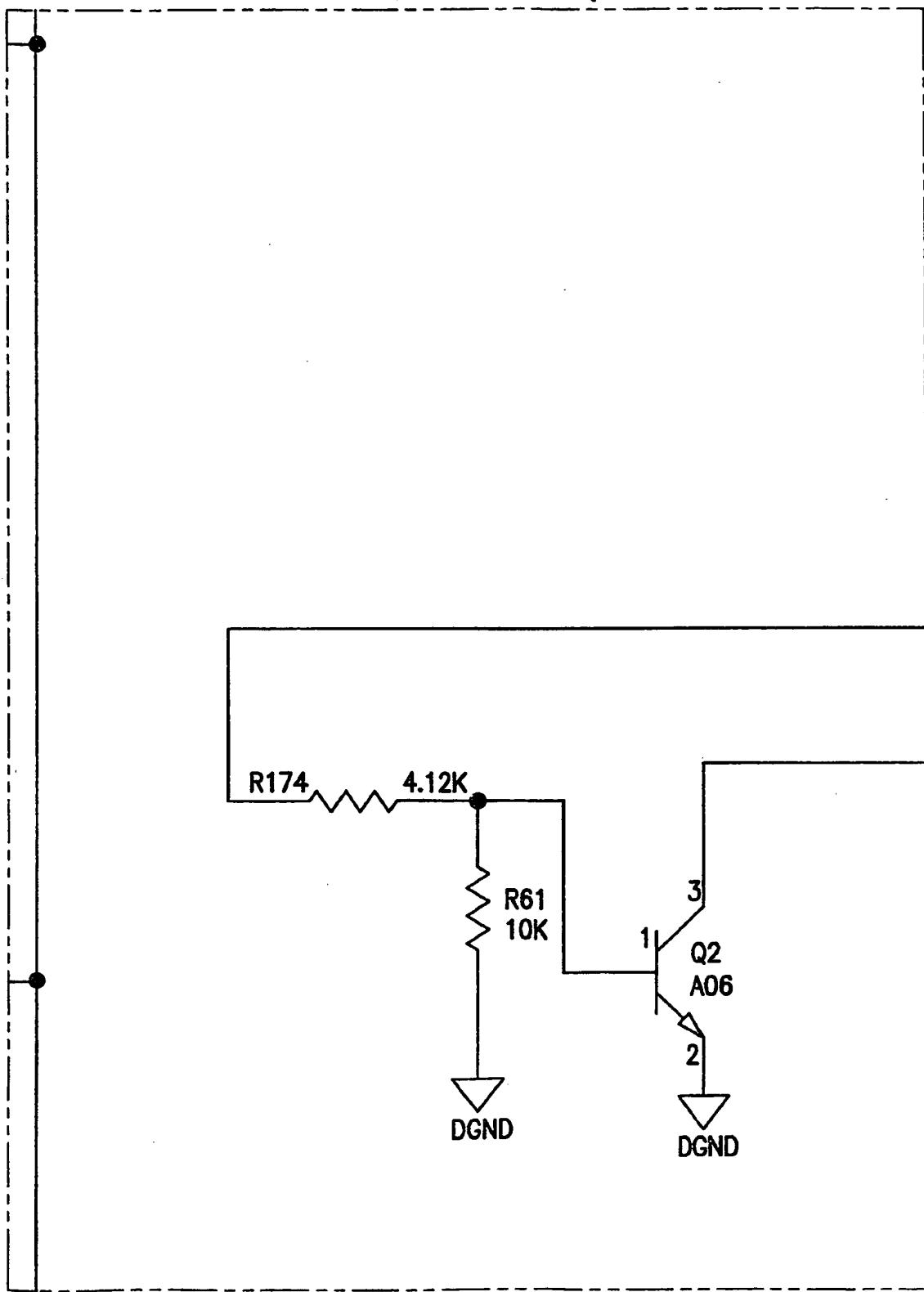


FIG. 66Q



REPLACEMENT SHEET

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FIG. 66R

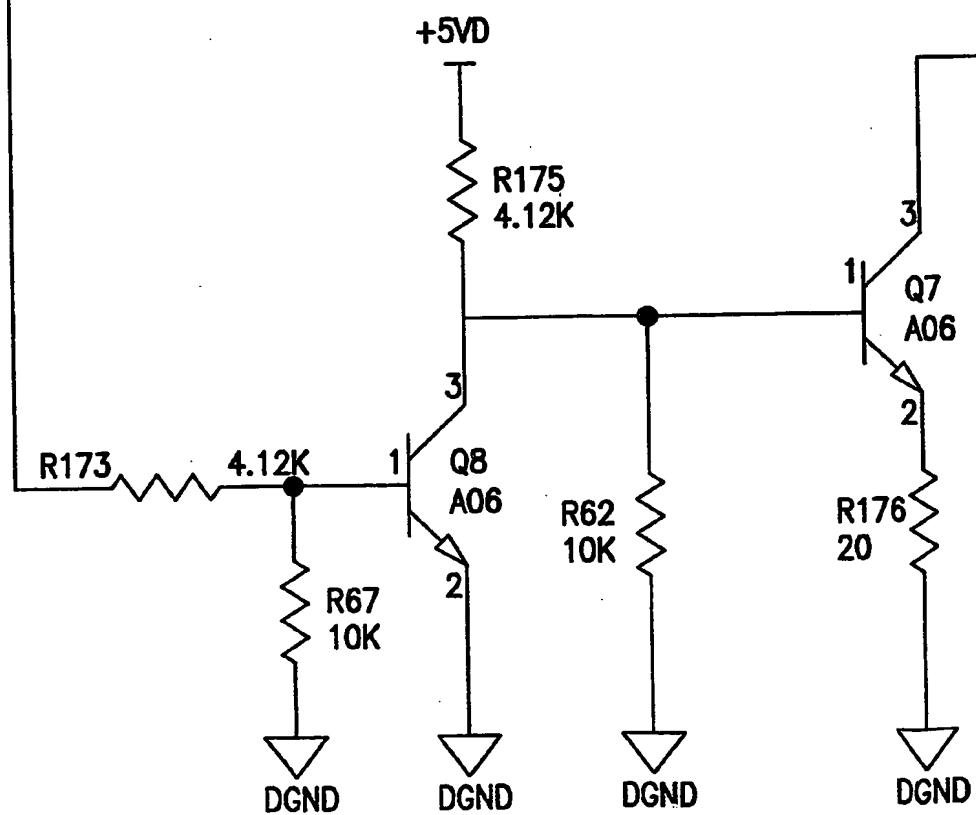
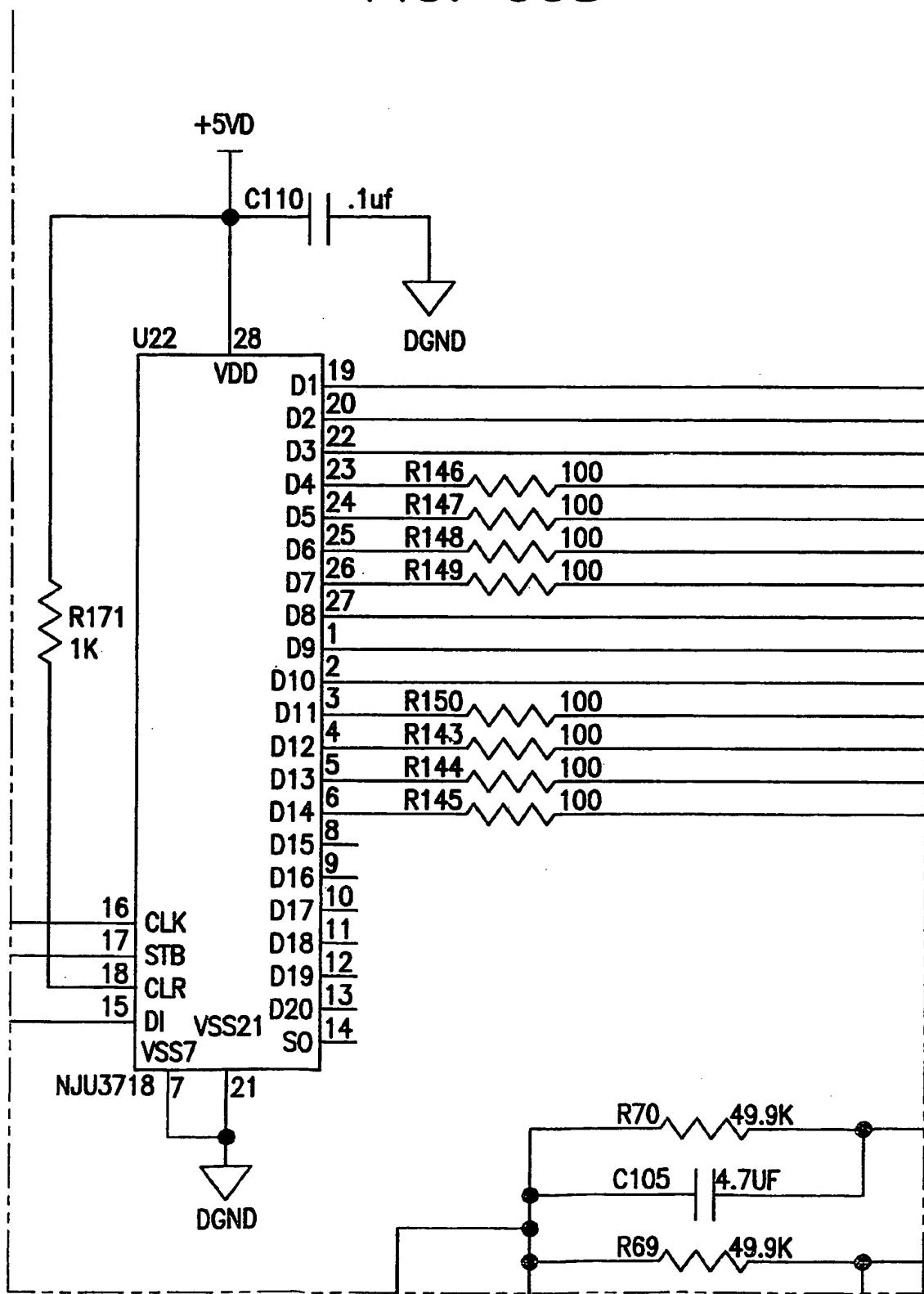


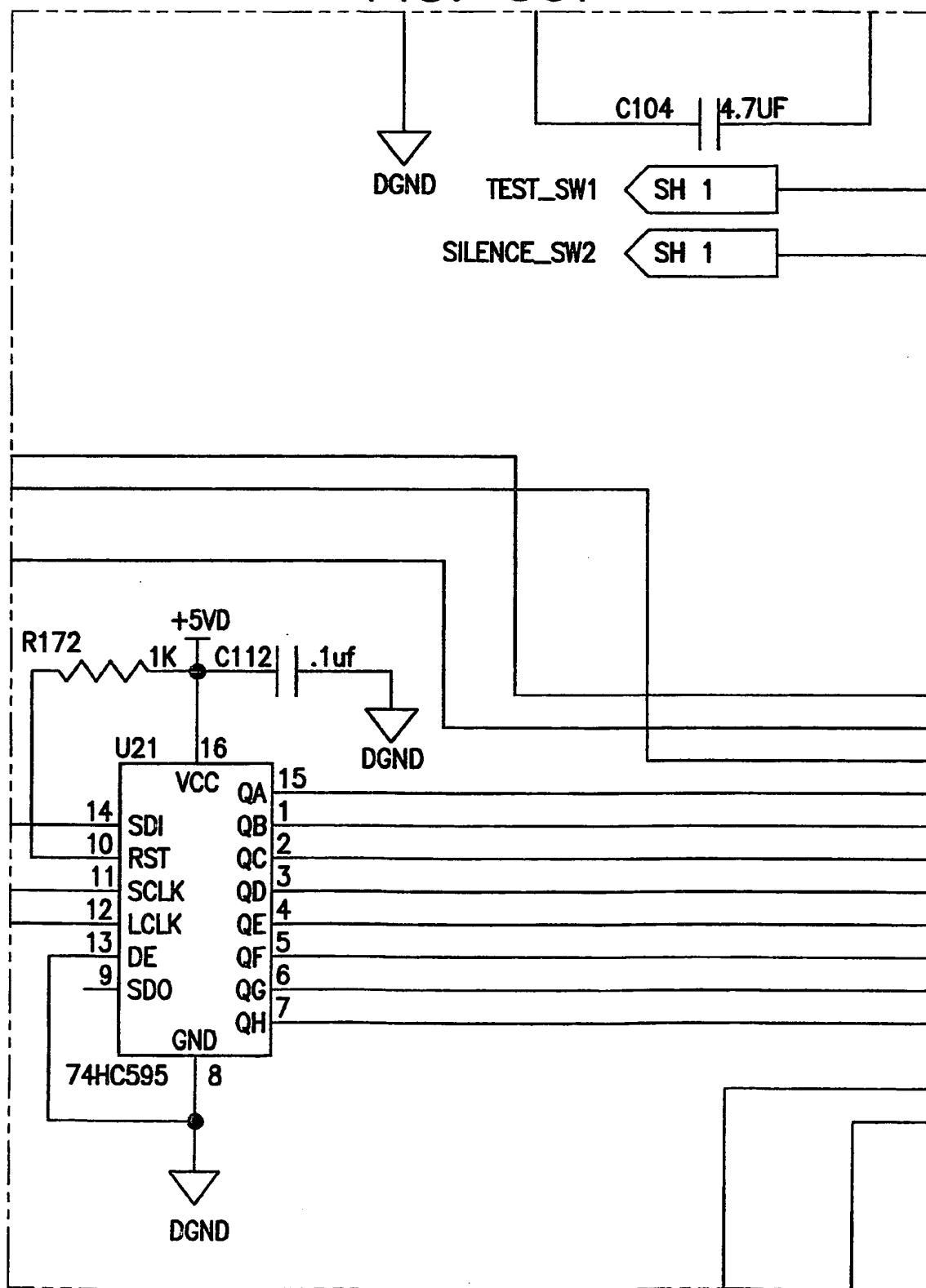
FIG. 66S



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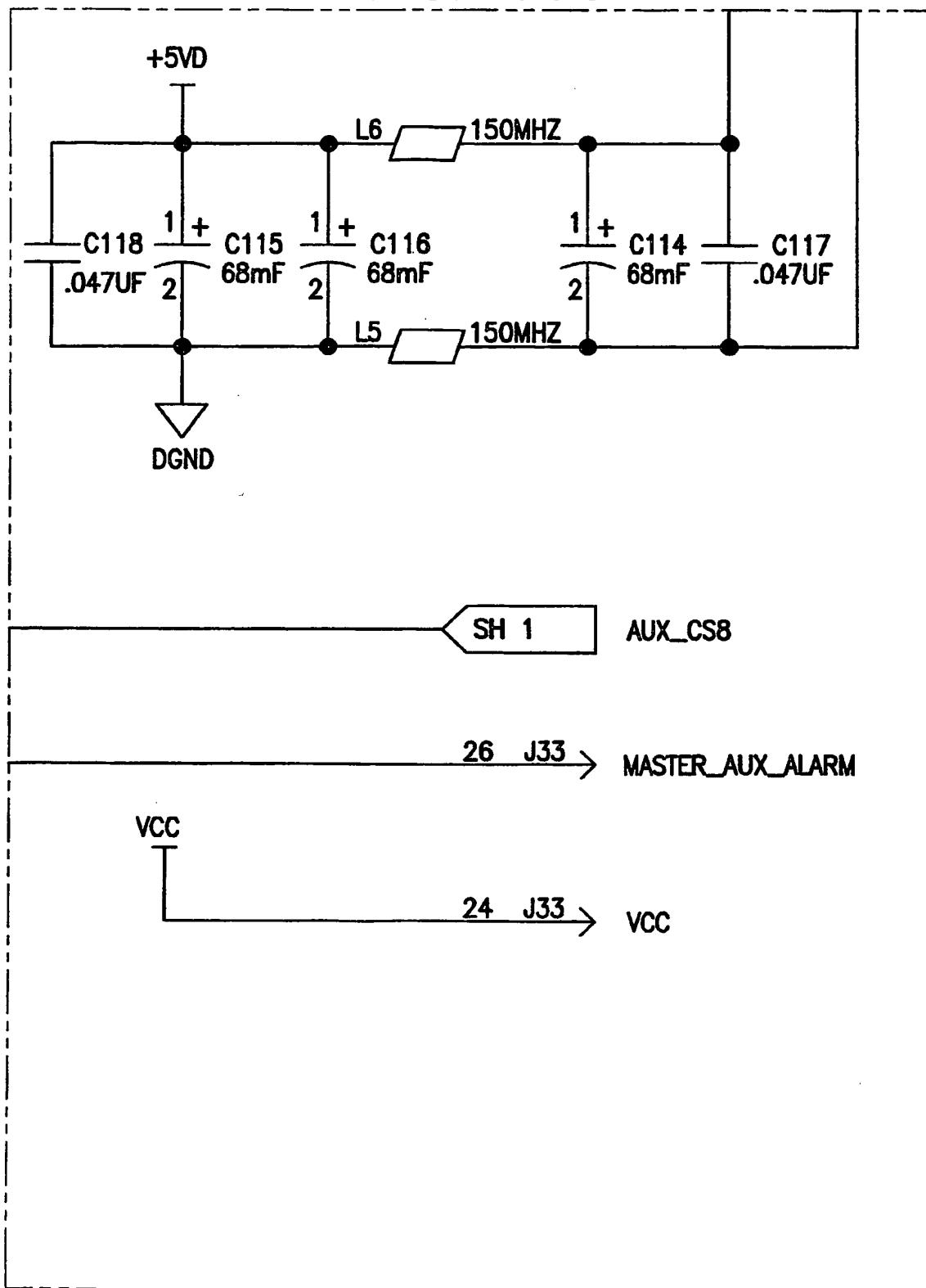
FIG. 66T



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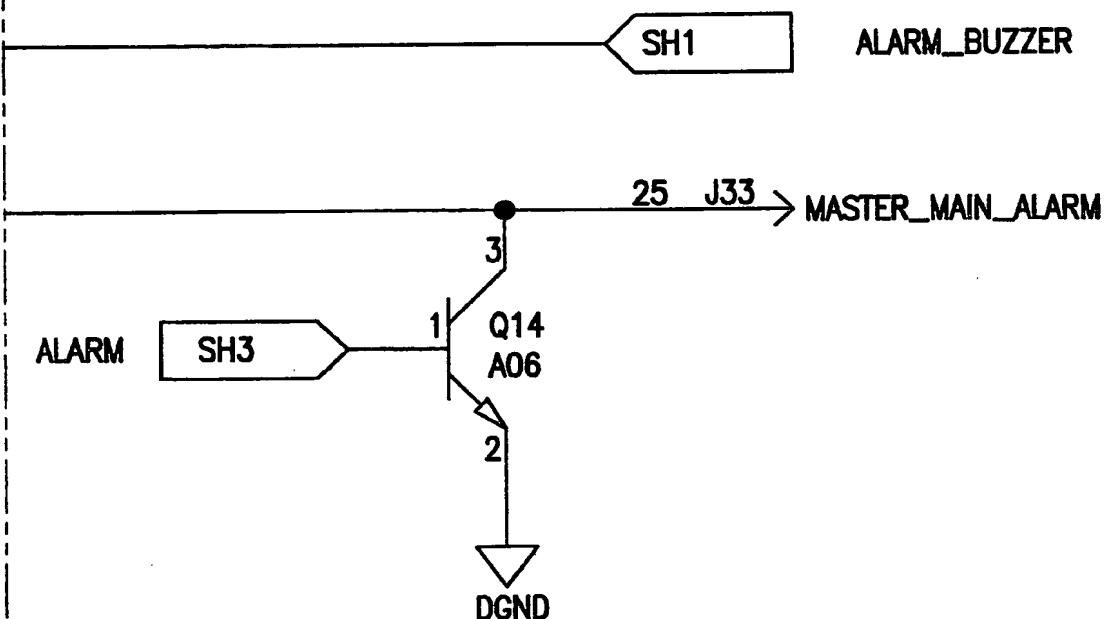
FIG. 66U



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FIG. 66V



13	J33	→ J33_13_NOT_USED
14	J33	→ J33_14_NOT_USED
15	J33	→ J33_15_NOT_USED
16	J33	→ J33_16_NOT_USED
17	J33	→ J33_17_NOT_USED
21	J33	→ J33_21_NOT_USED
22	J33	→ J33_22_NOT_USED
23	J33	→ J33_23_NOT_USED

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FIG. 66W

OVERLAY LED PIN CONNECT		
AREA LED #	GREEN	RED
1	1-4	1-7
2	1-8	1-9
3	1-17	1-18
4	2-4	2-7
5	11-8	11-9
6	11-17	11-16
7	3-4	3-7
8	10-8	10-9
9	12-15	12-16

TO OVERLAY

- 1 J46 → AREA\_1\_2\_3\_LED\_COM
- 2 J46 → AREA\_4\_LED\_COM
- 3 J46 → AREA\_7\_LED\_COM
- 4 J46 → AREA\_1\_4\_7\_LED\_GREEN
- 7 J46 → AREA\_1\_4\_7\_LED\_RED
- 8 J46 → AREA\_2\_5\_8\_LED\_GREEN
- 9 J46 → AREA\_2\_5\_8\_LED\_RED
- 10 J46 → AREA\_8\_LED\_COM
- 11 J46 → AREA\_5\_6\_LED\_COM
- 12 J46 → AREA\_9\_LED\_COM
- 15 J46 → AREA\_9\_LED\_GREEN
- 16 J46 → AREA\_6\_9\_LED\_RED
- 17 J46 → AREA\_3\_6\_LED\_GREEN
- 18 J46 → AREA\_3\_LED\_RED

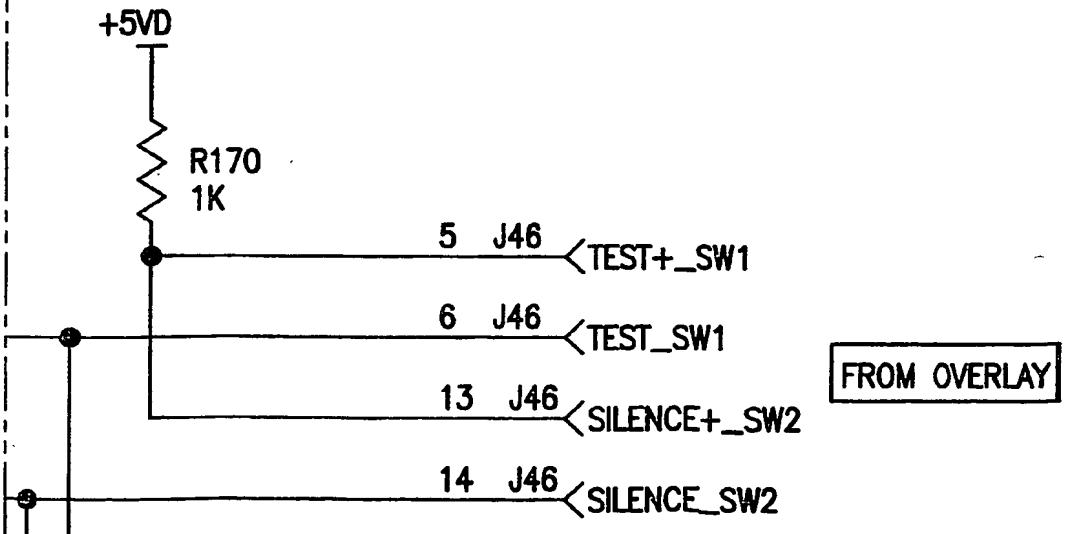
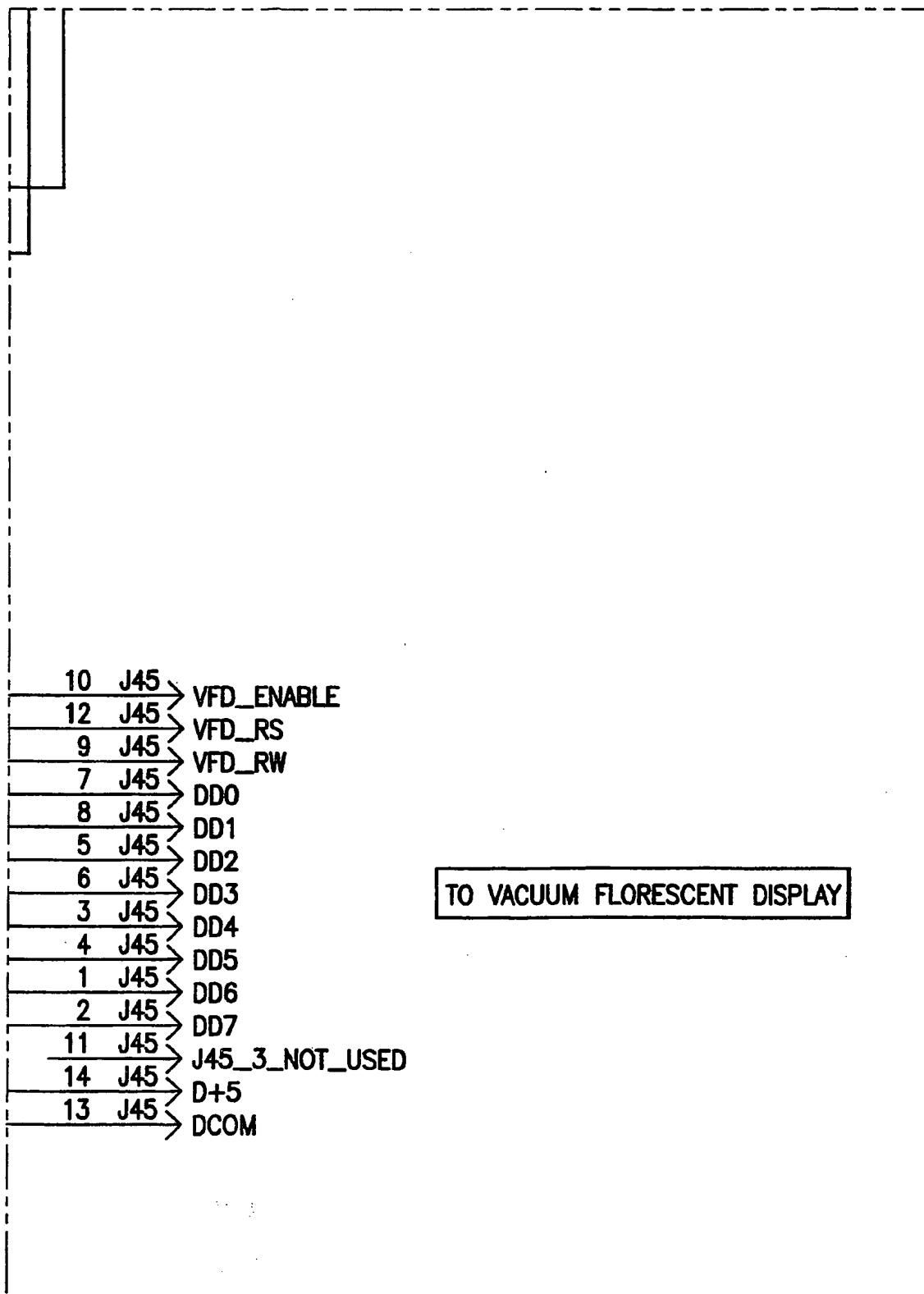


FIG. 66X



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**FIG. 67**

		FIG. 67E	FIG. 67I	FIG. 67M		
FIG. 67A	FIG. 67B	FIG. 67F	FIG. 67J	FIG. 67N	FIG. 67Q	FIG. 67T
FIG. 67C	FIG. 67G	FIG. 67K	FIG. 67O	FIG. 67R	FIG. 67U	
FIG. 67D	FIG. 67H	FIG. 67L	FIG. 67P	FIG. 67S		

## **REPLACEMENT SHEET**

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FIG. 67A

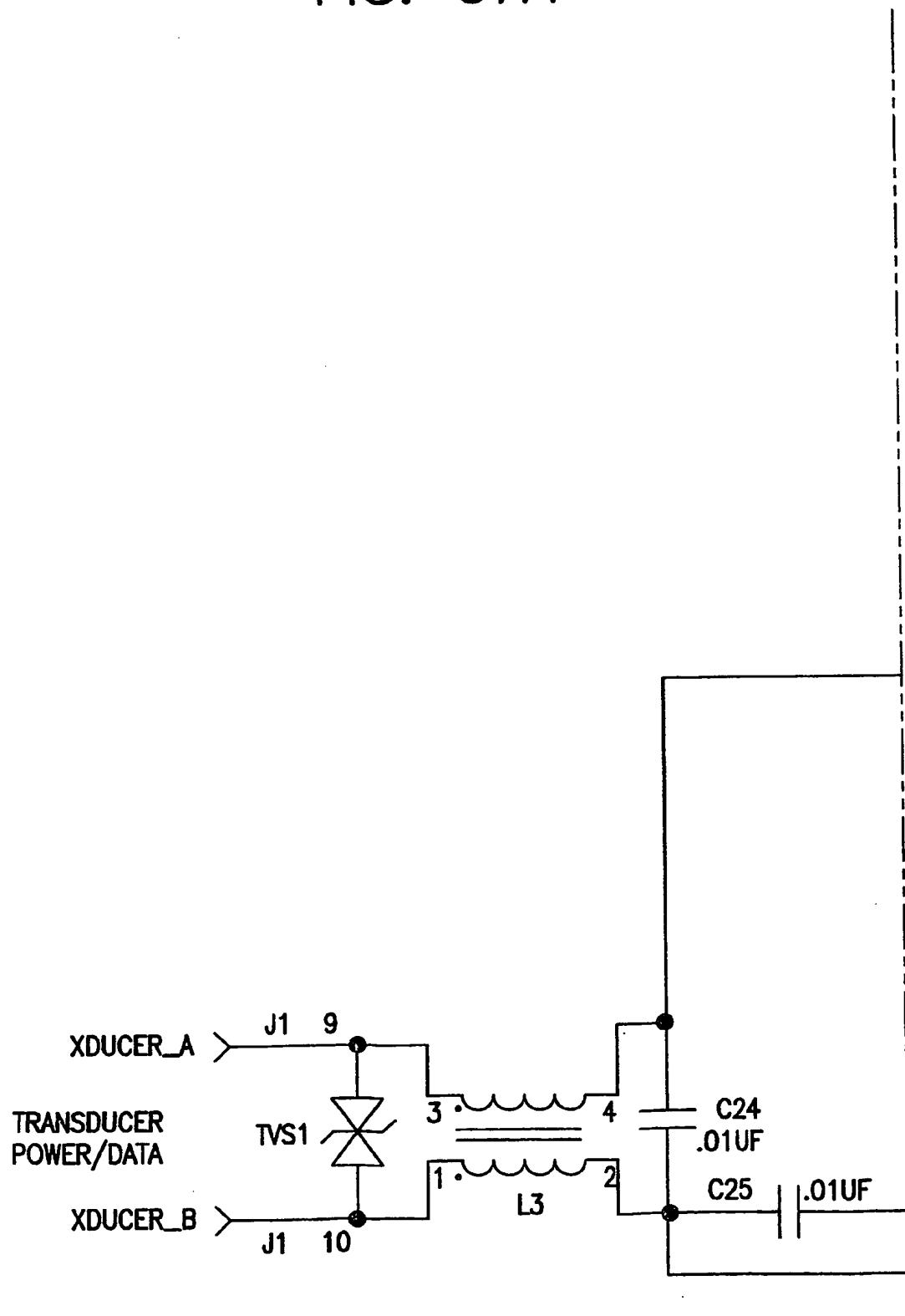


FIG. 67B

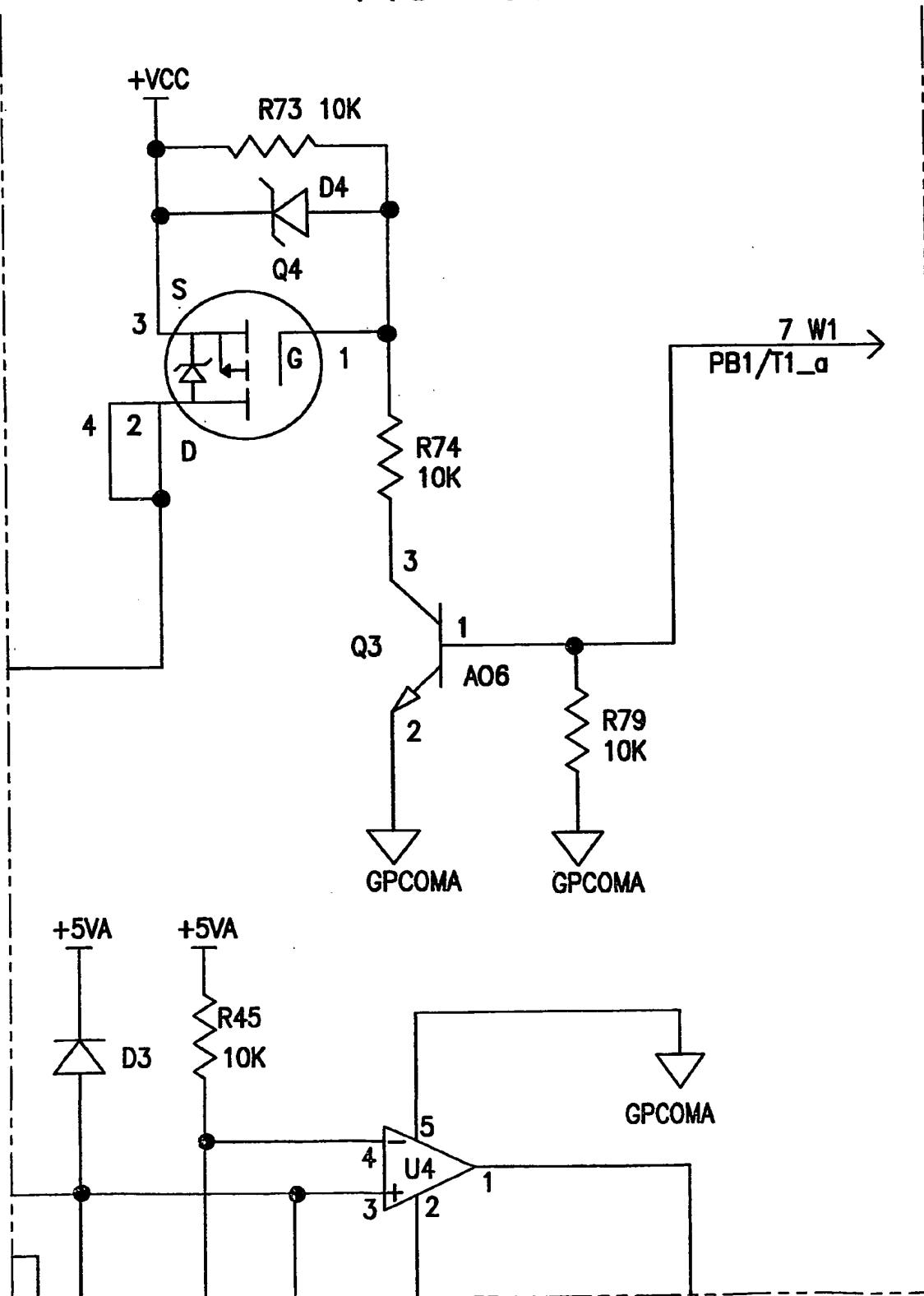
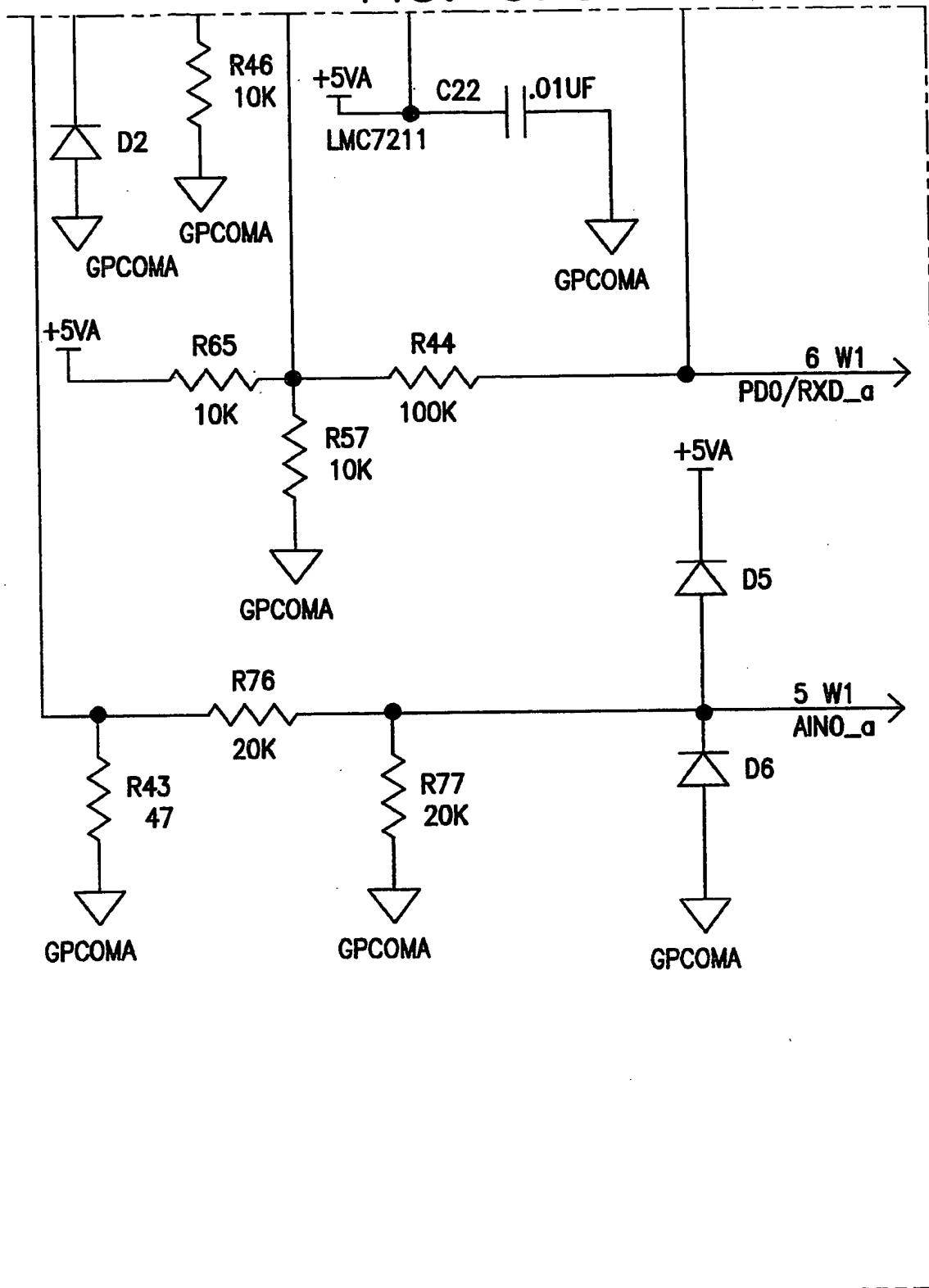


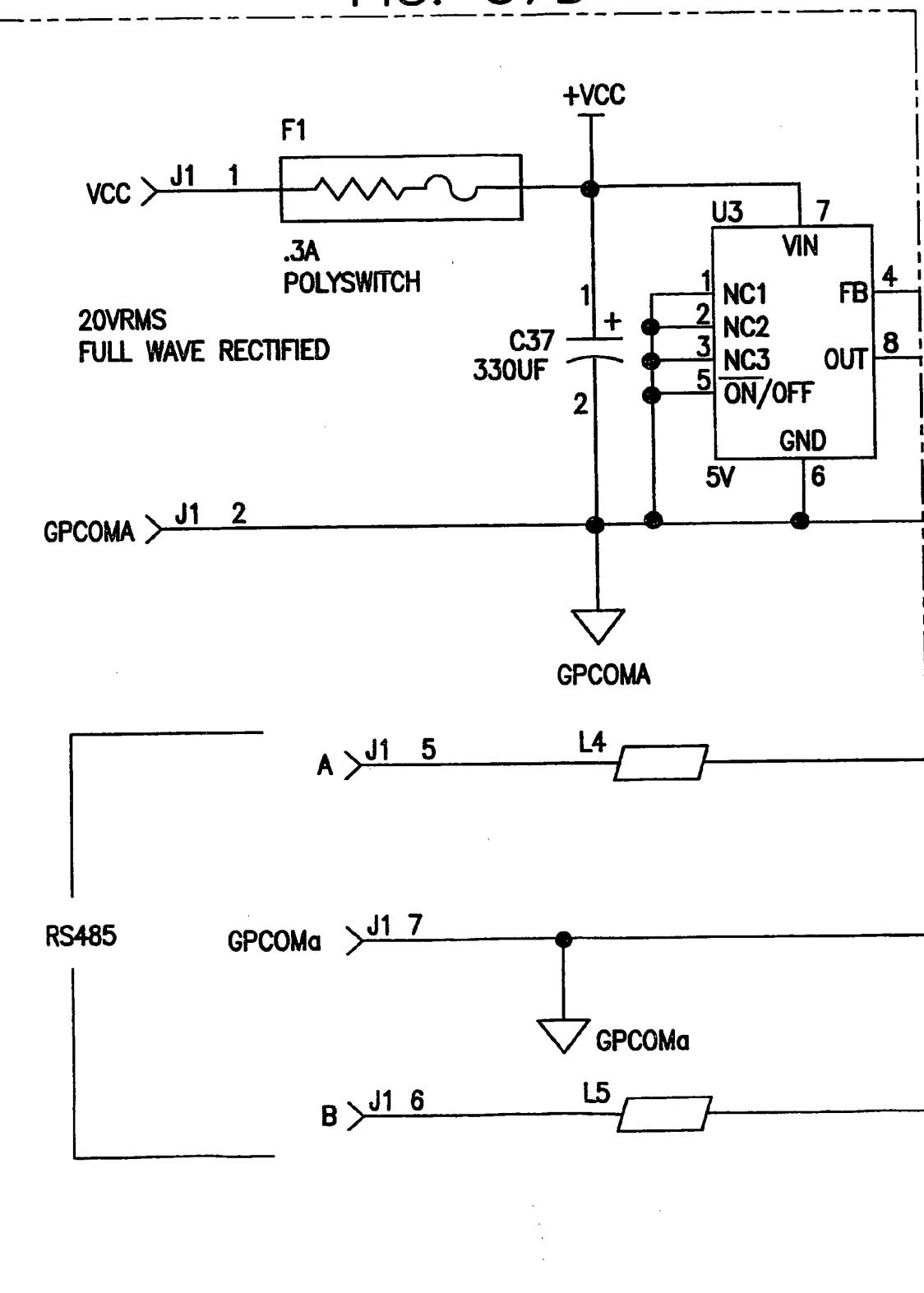
FIG. 67C



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FIG. 67D



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FIG. 67E

AUX\_ALARM > J1 3 → 10W1 → AUX\_ALARM\_A

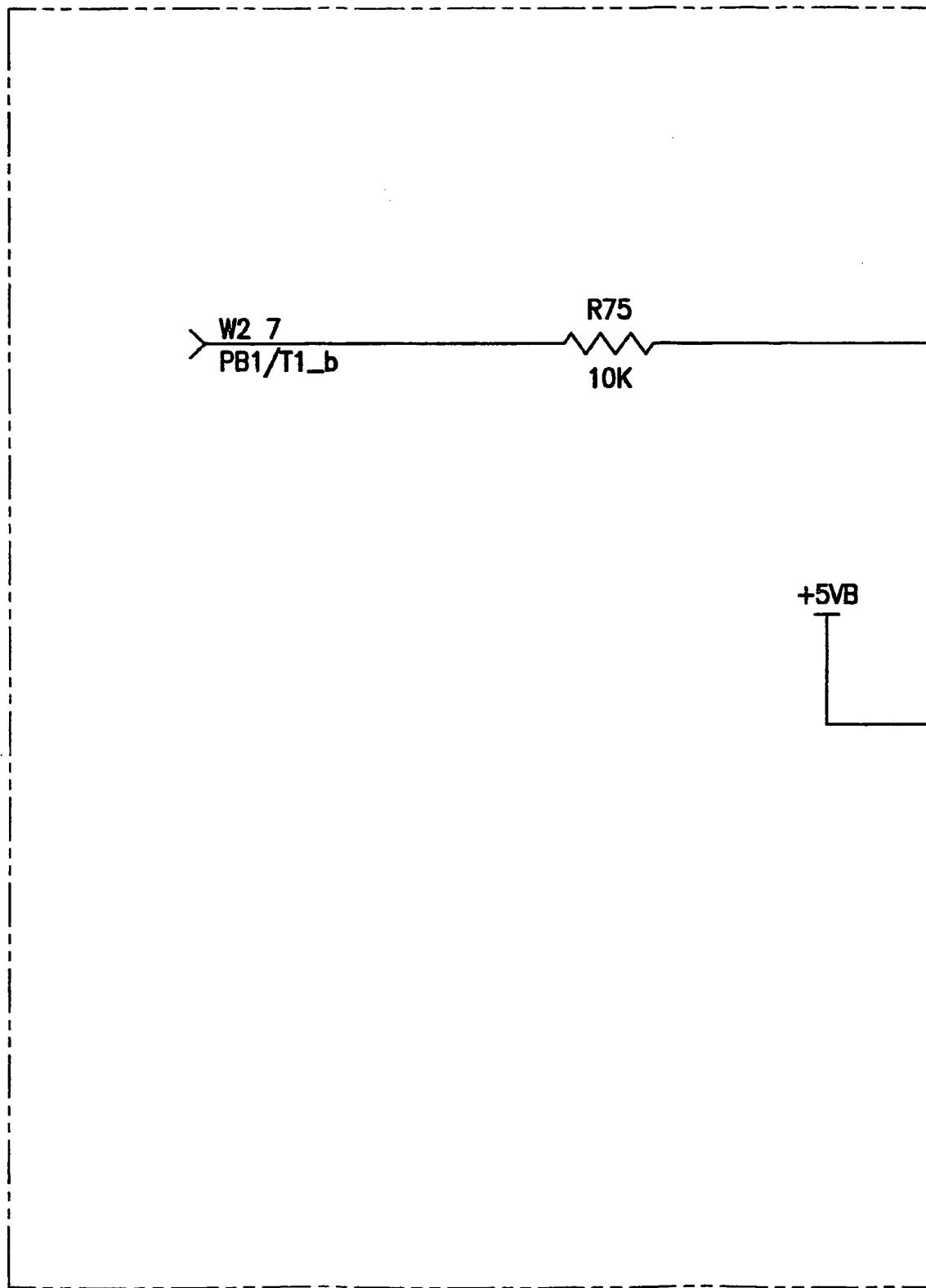
MAIN\_ALARM > J1 4 → 9 W1 → MAIN\_ALARM\_A

GUARDED\_ACCESS > J1 8 → 8 W1 → GUARDED\_ACCESS\_A

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FIG. 67F



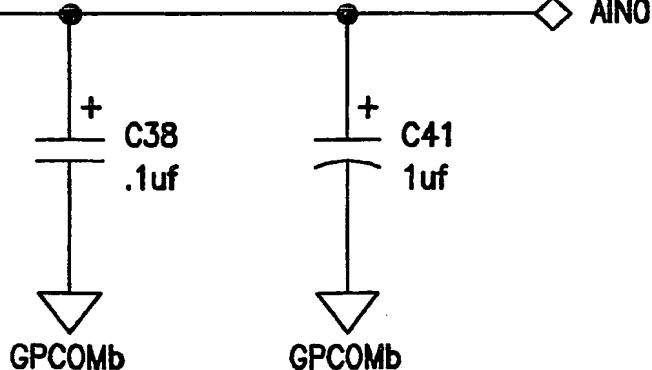
REPLACEMENT SHEET

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FIG. 67G

W2 6  
PDO/RXD\_b

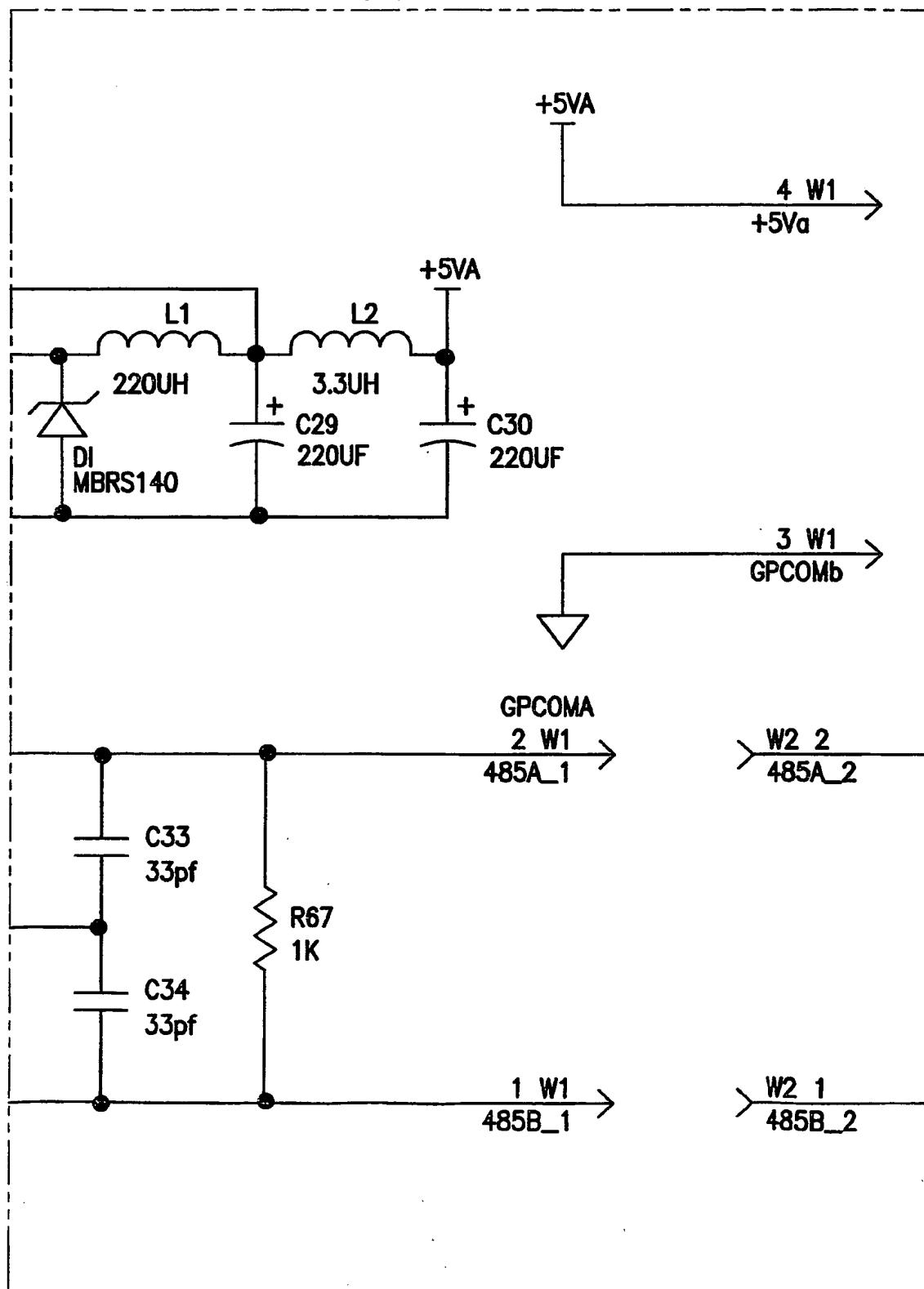
W2 5  
AIN0\_b



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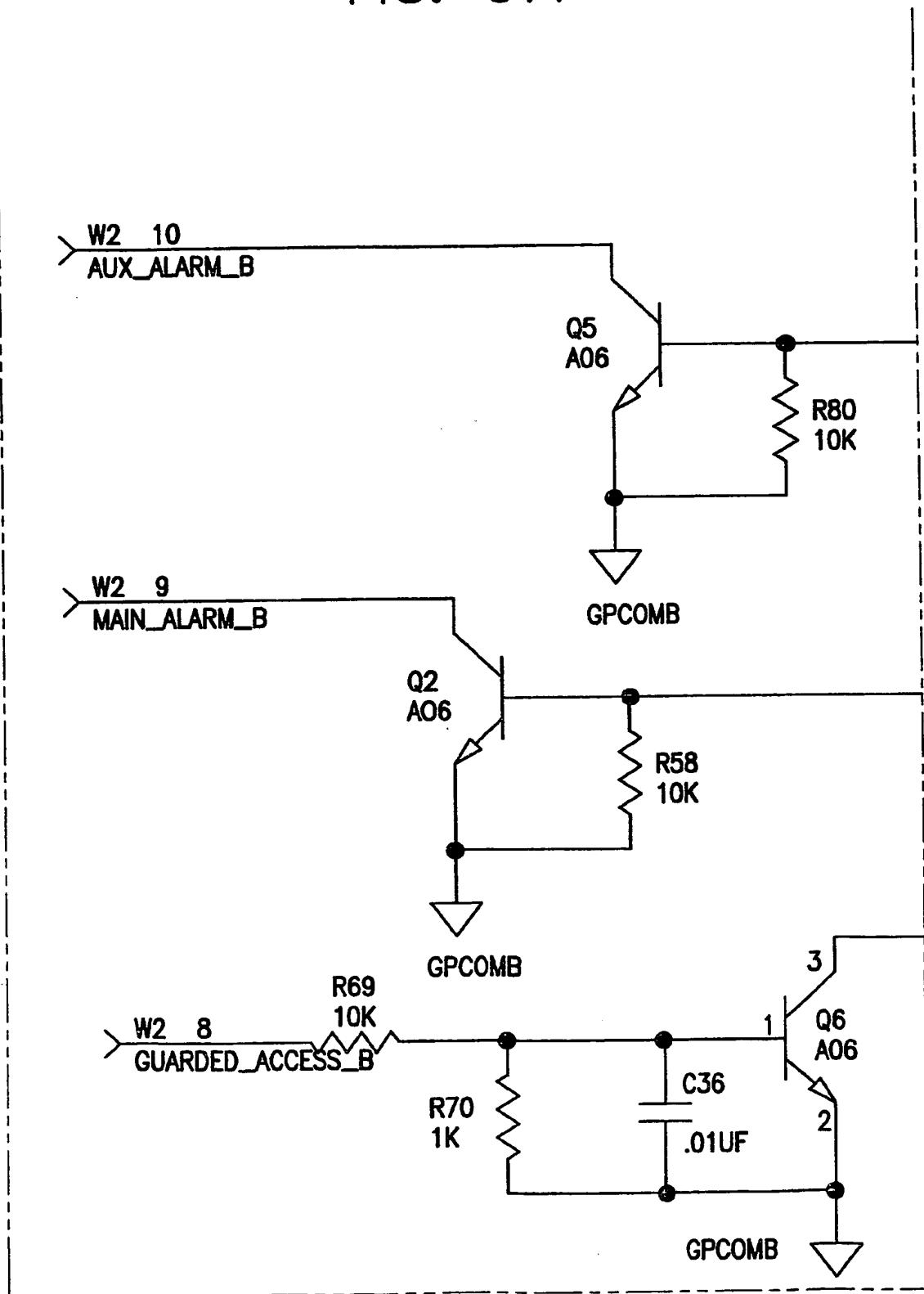
FIG. 67H



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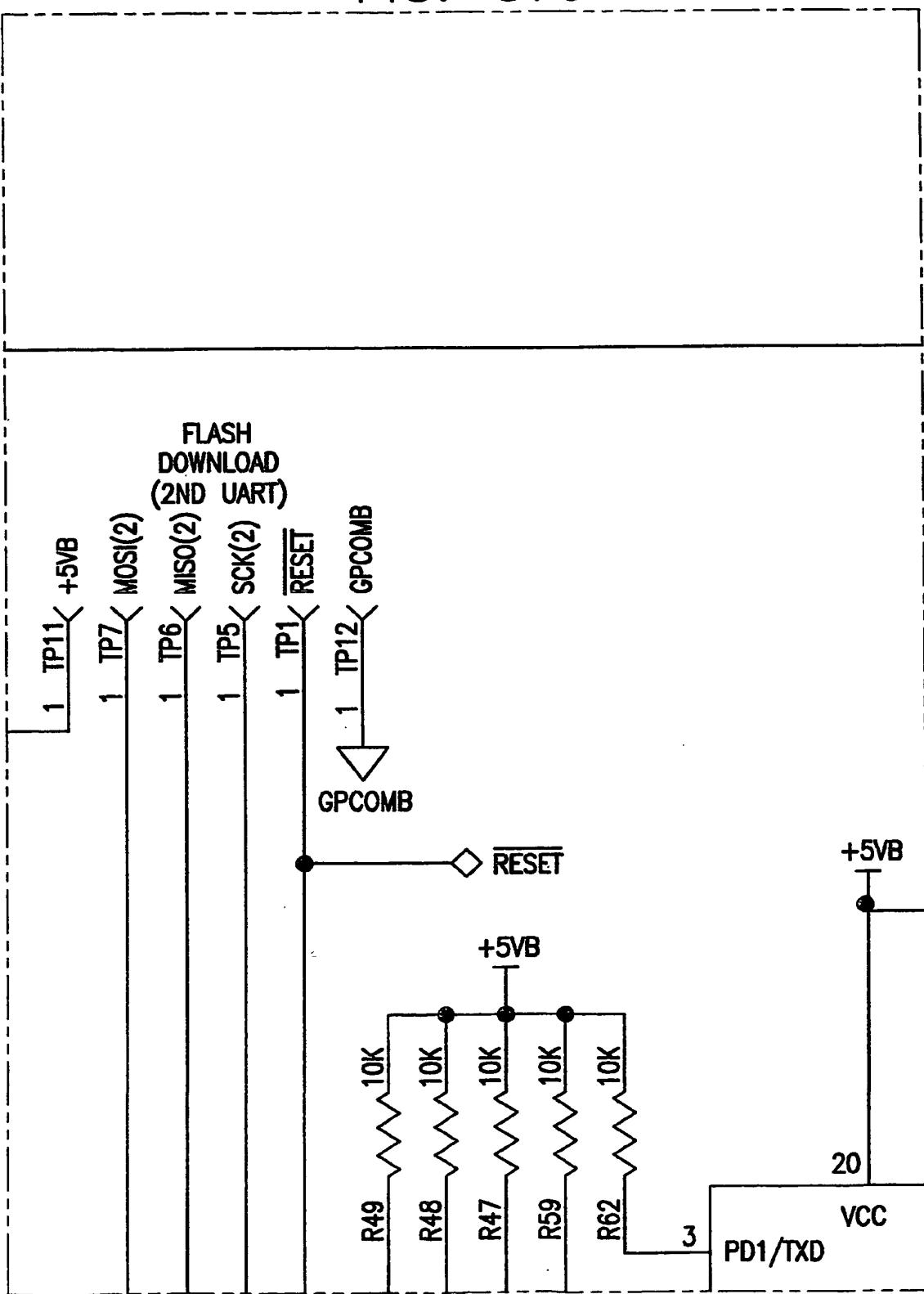
FIG. 67I



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FIG. 67J



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FIG. 67K

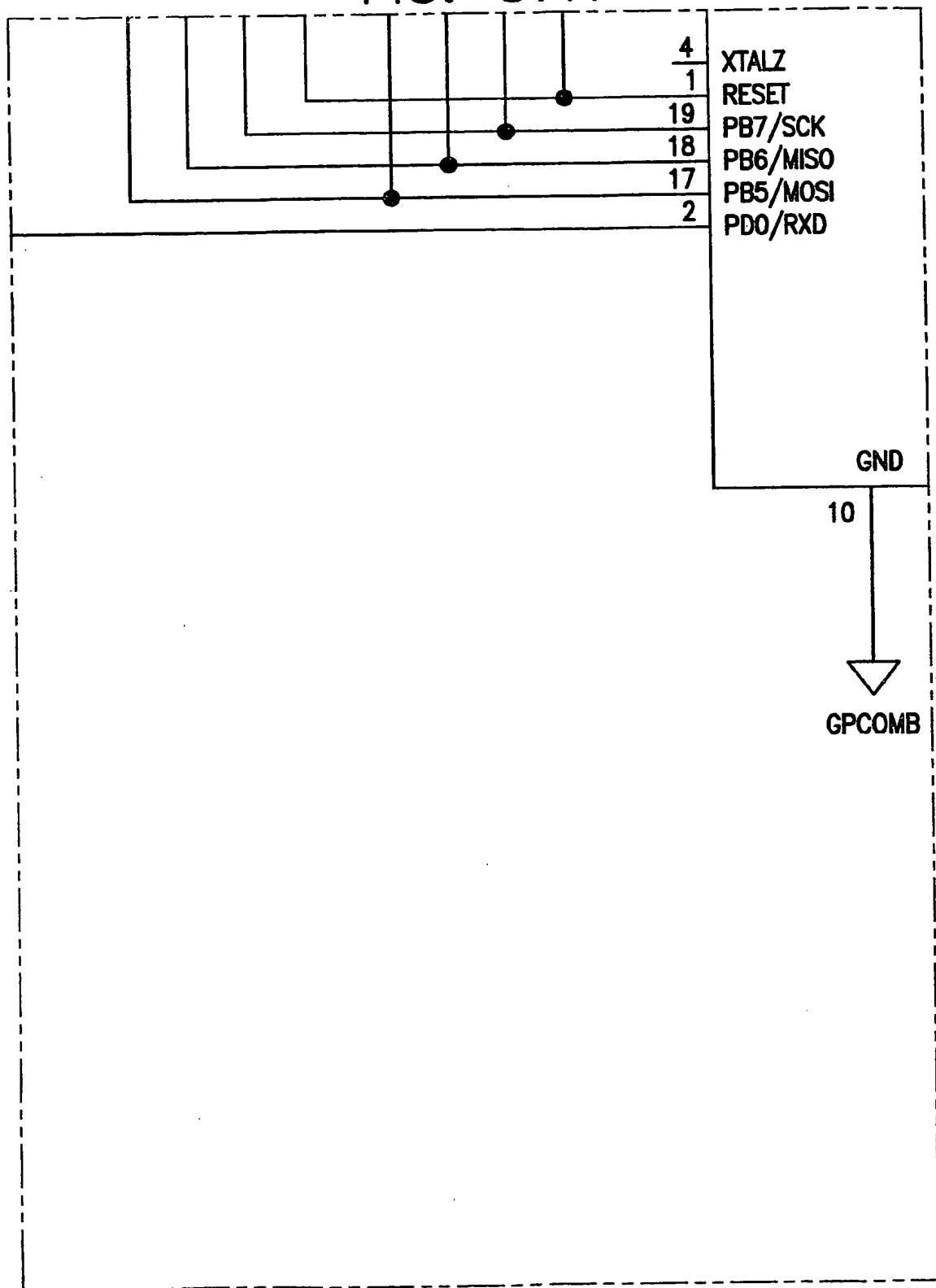
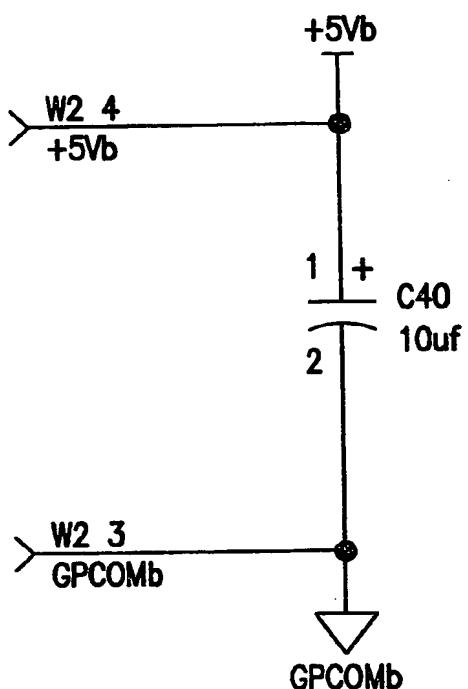


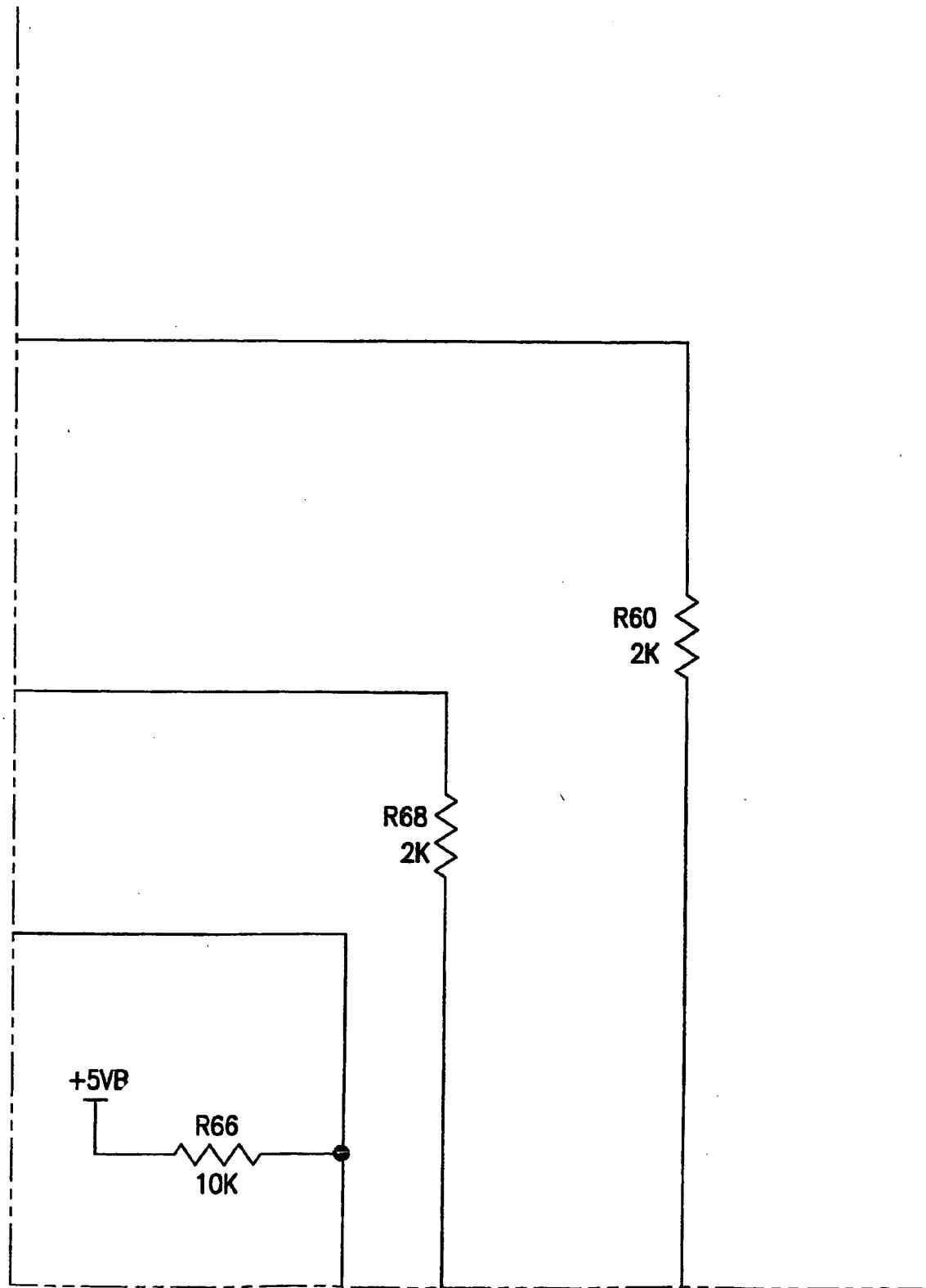
FIG. 67L



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FIG. 67M



REPLACEMENT SHEET

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FIG. 67N

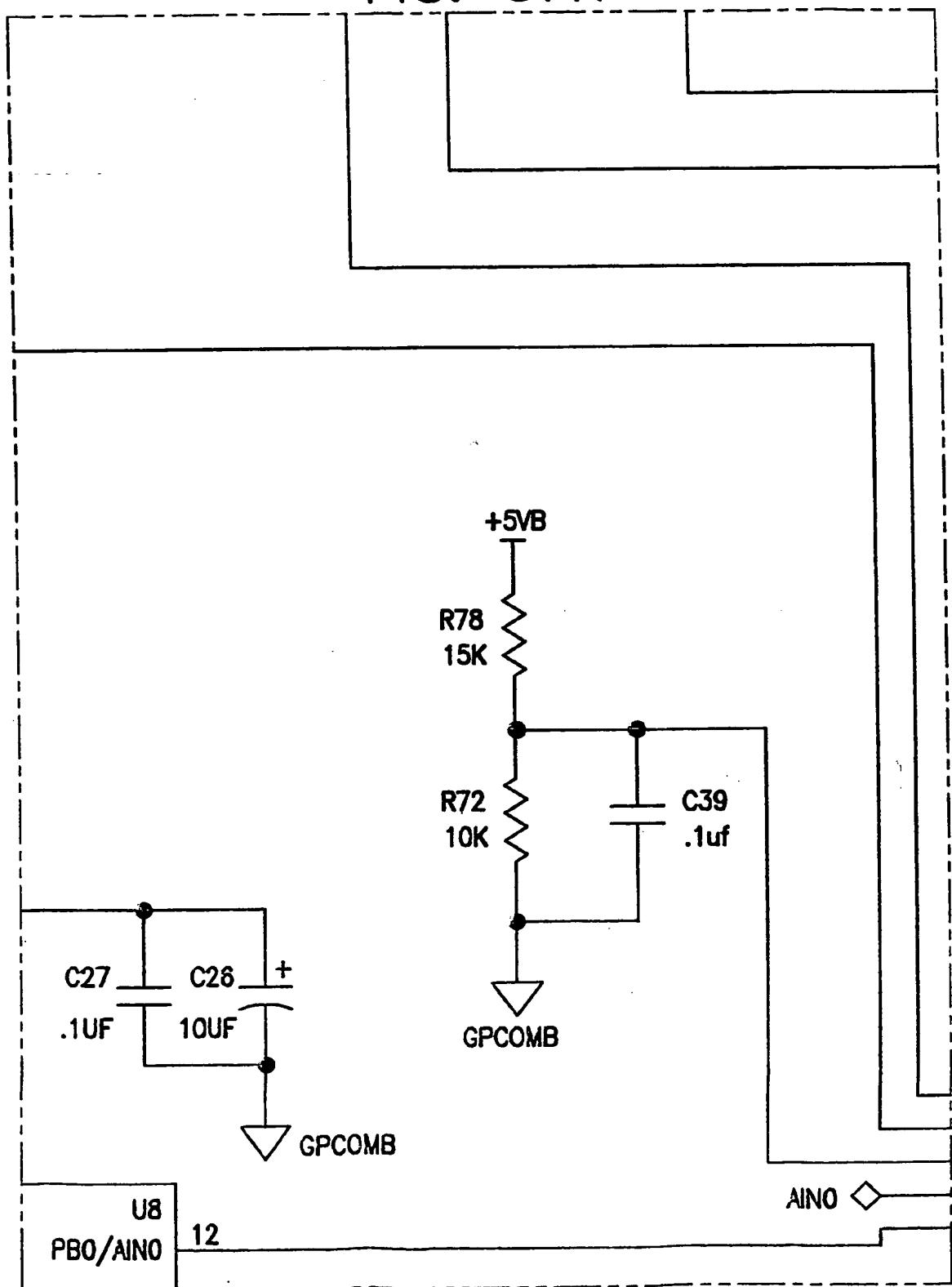
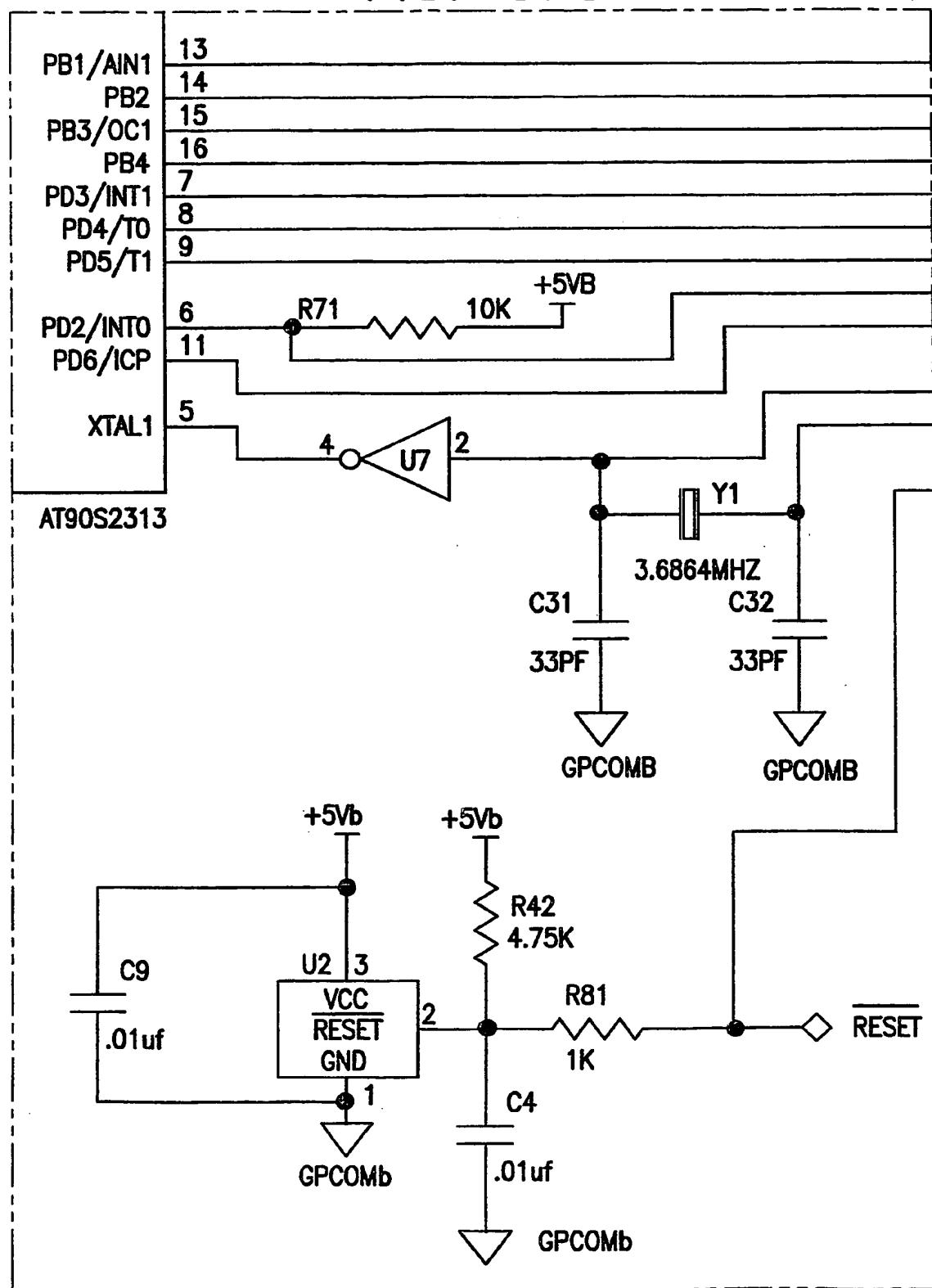


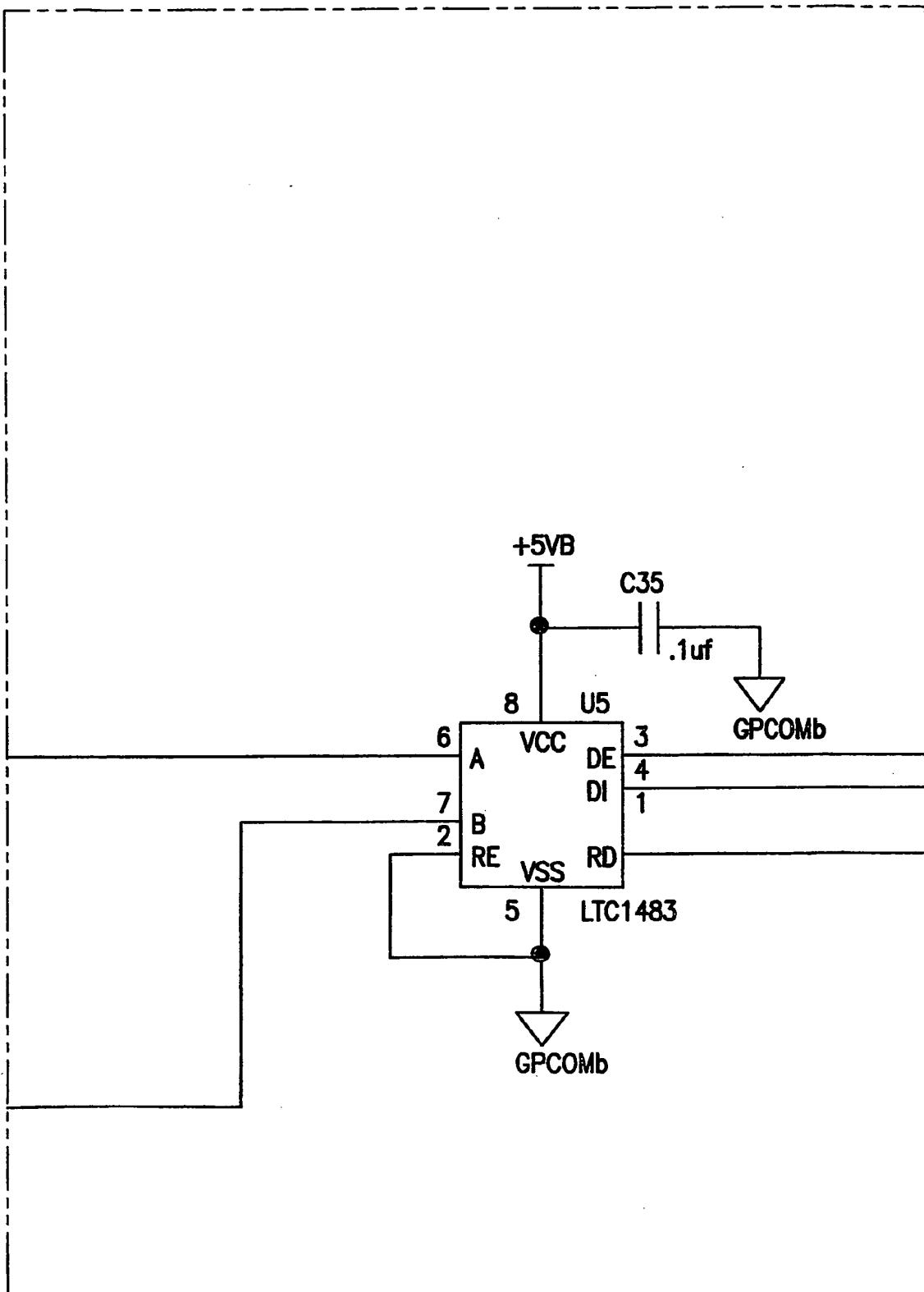
FIG. 670



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FIG. 67P



REPLACEMENT SHEET

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FIG. 67Q

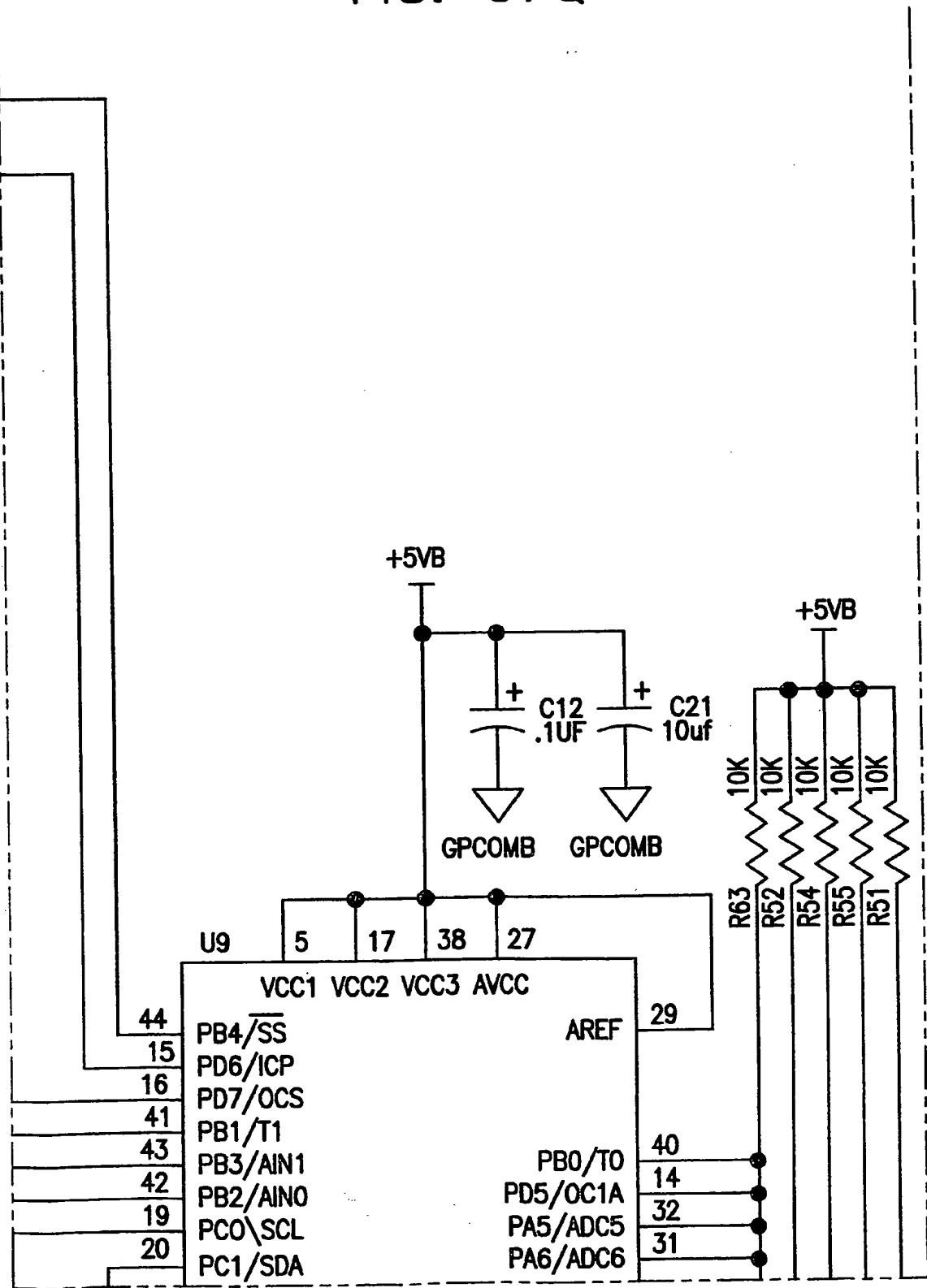


FIG. 67R

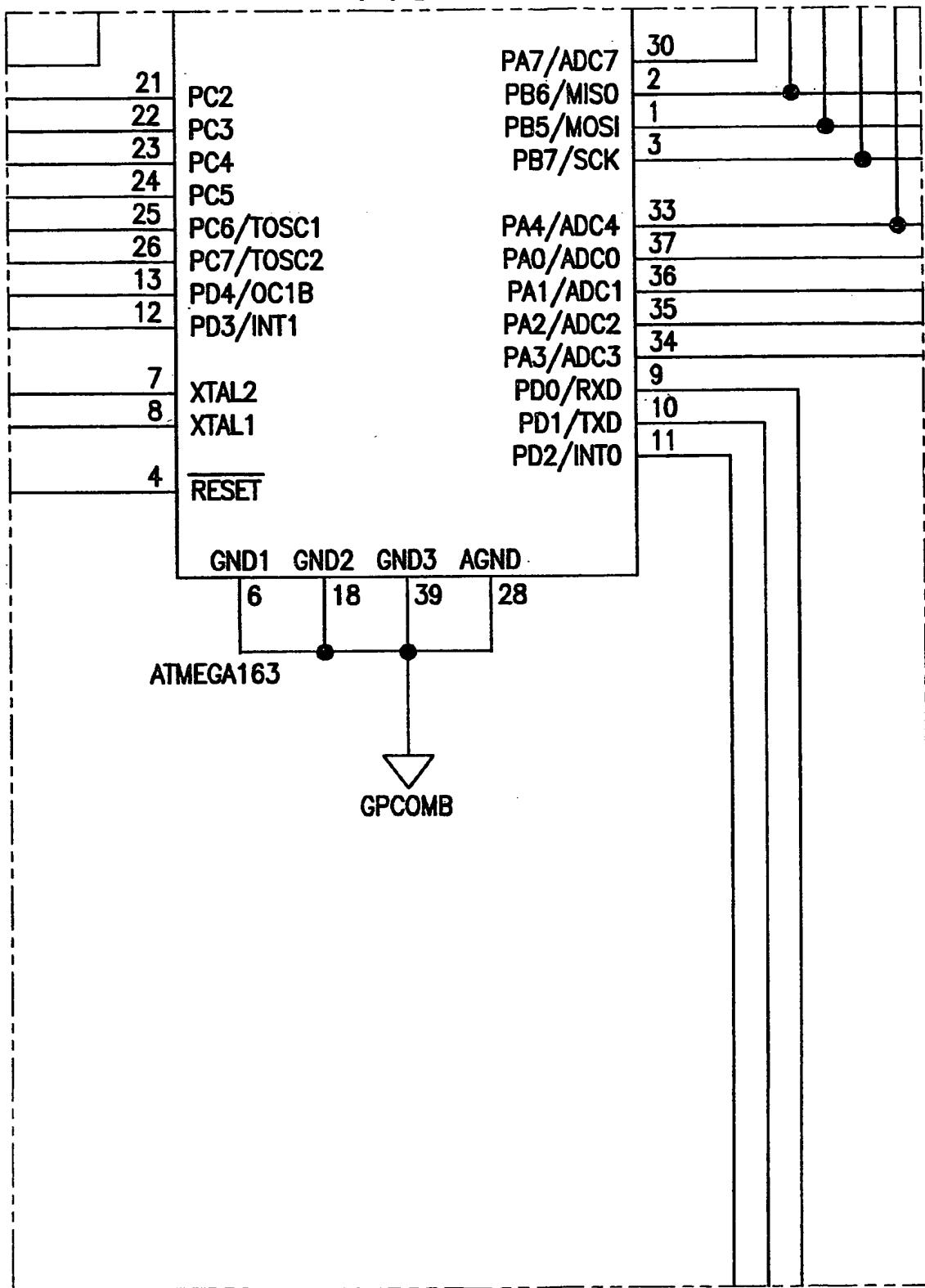


FIG. 67S

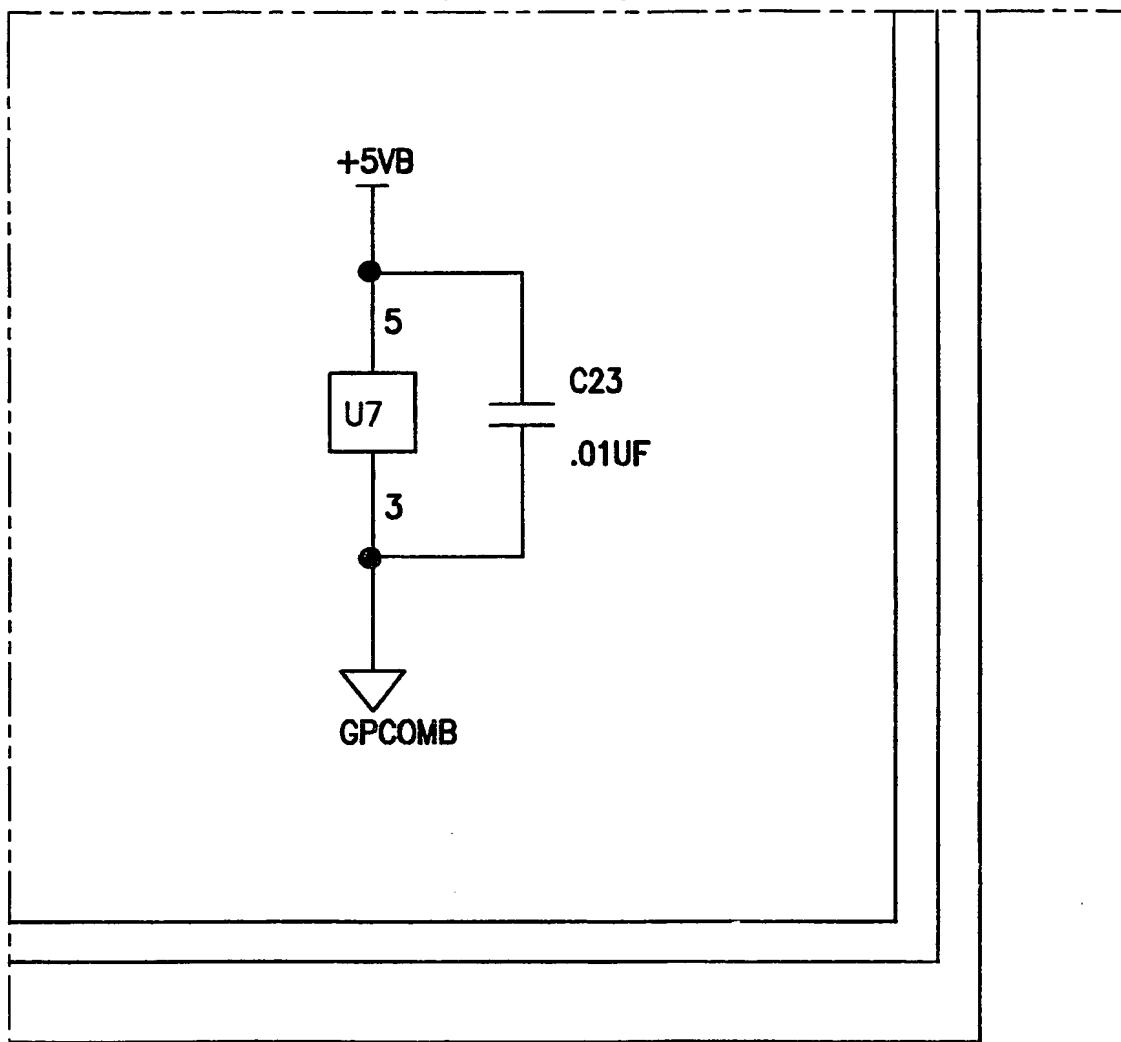
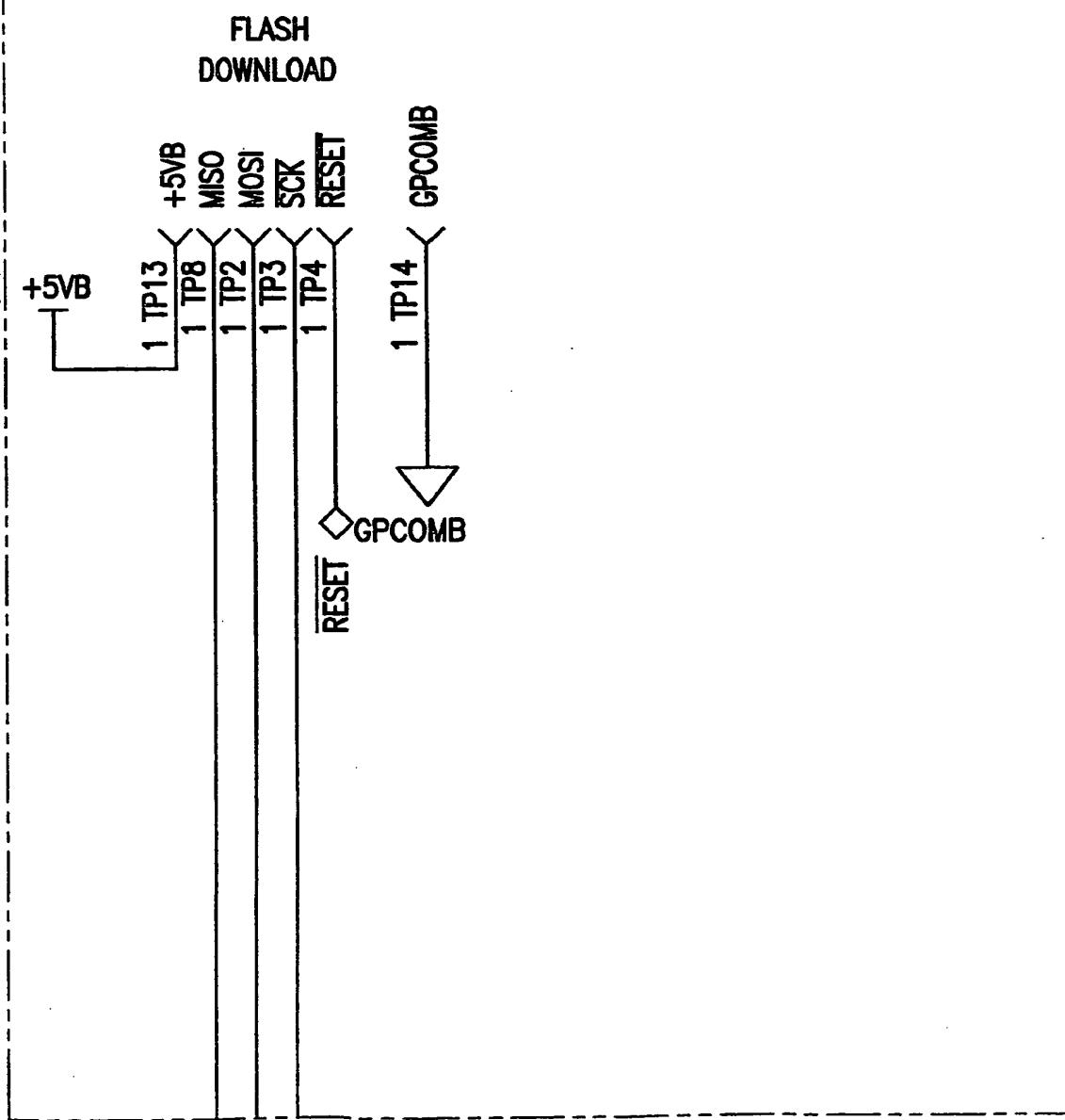


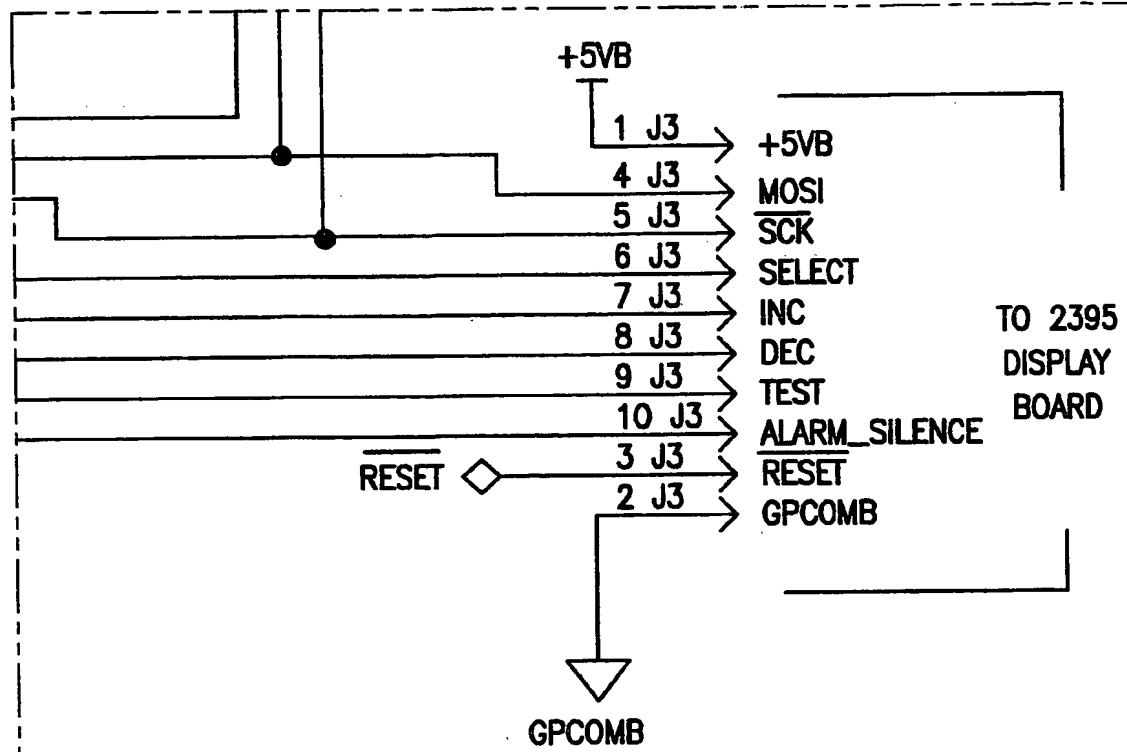
FIG. 67T



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FIG. 67U



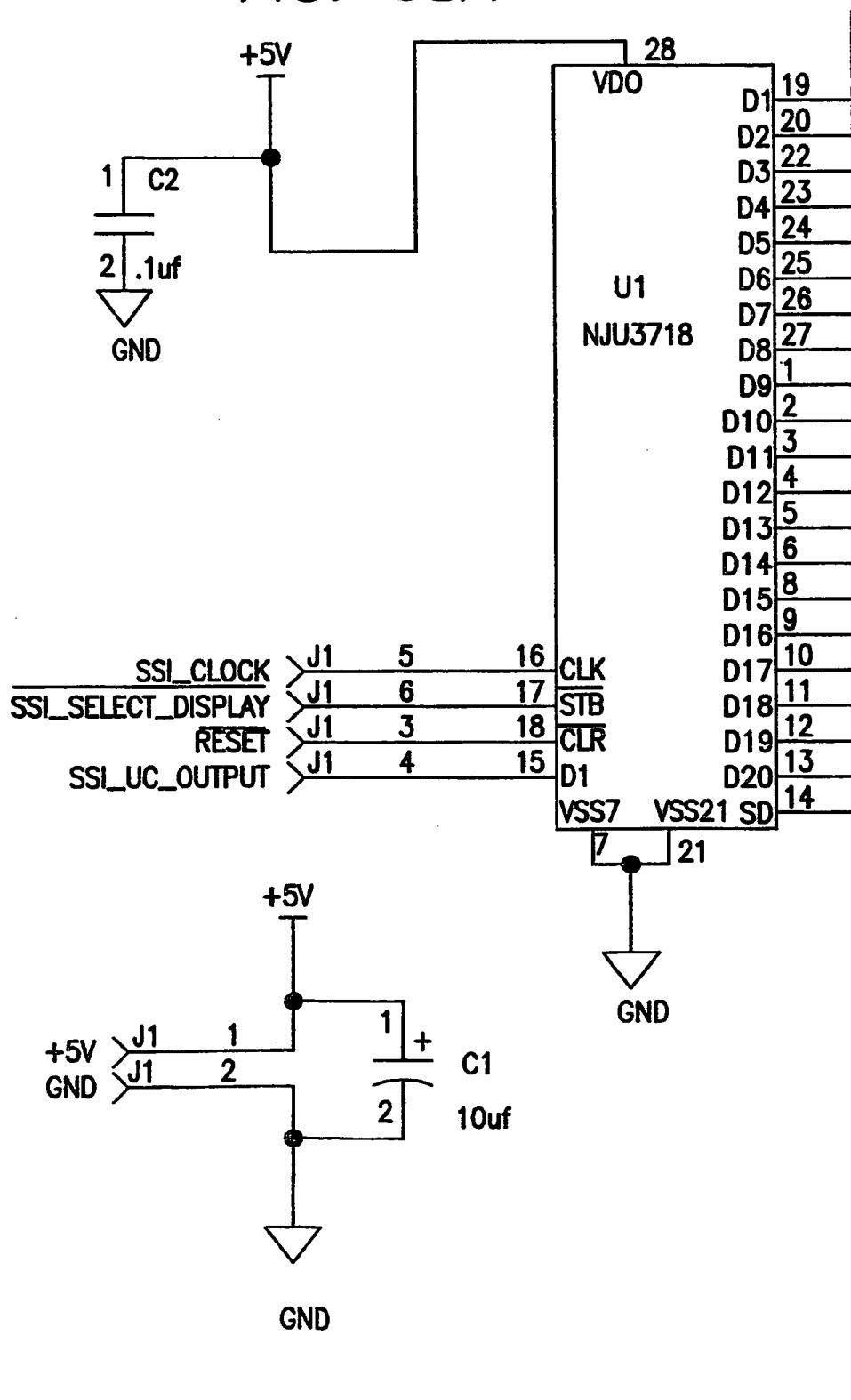
**REPLACEMENT SHEET**

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**FIG. 68**

	FIG. 68B	FIG. 68D	FIG. 68F	FIG. 68H	
FIG. 68A	FIG. 68C	FIG. 68E	FIG. 68G	FIG. 68I	FIG. 68J

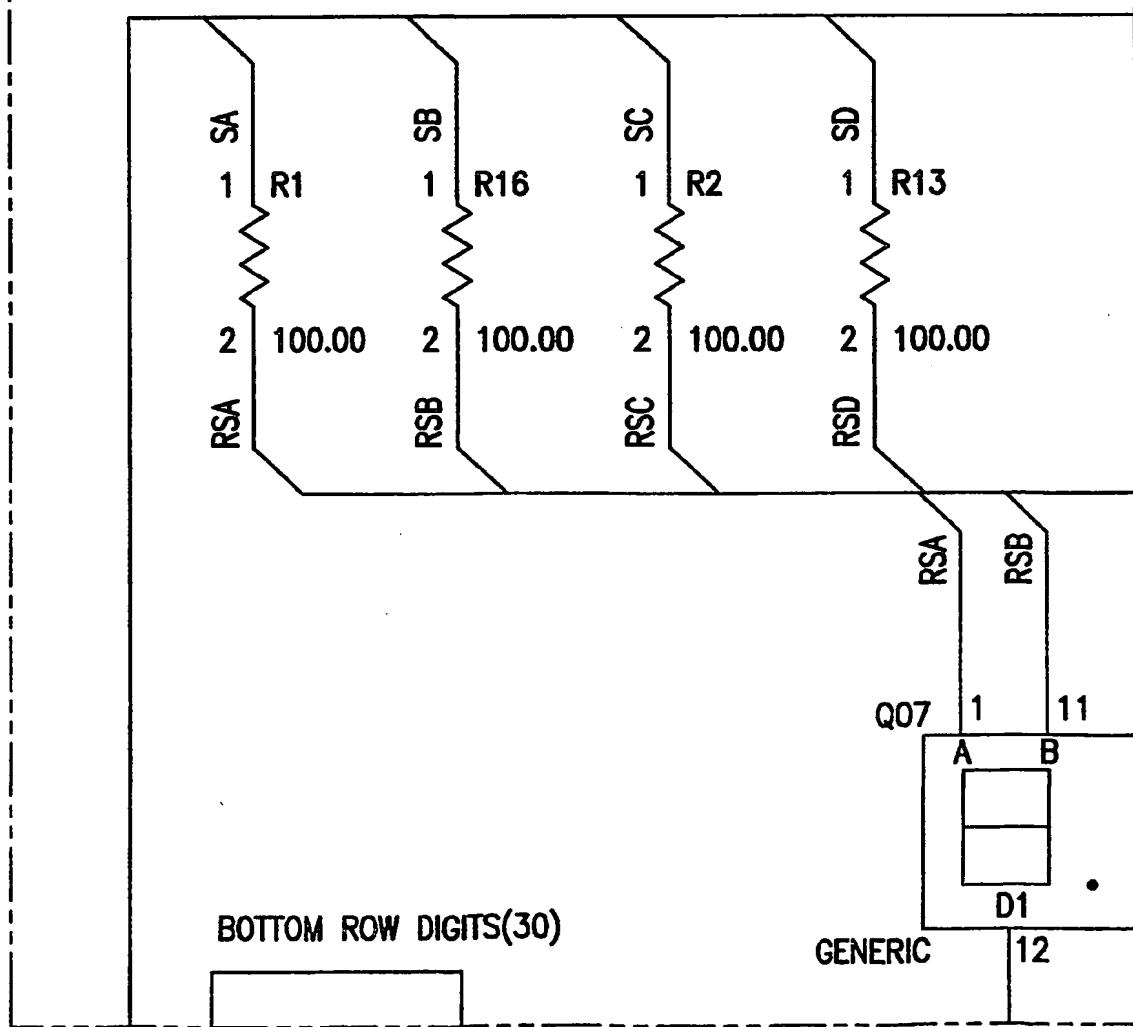
FIG. 68A



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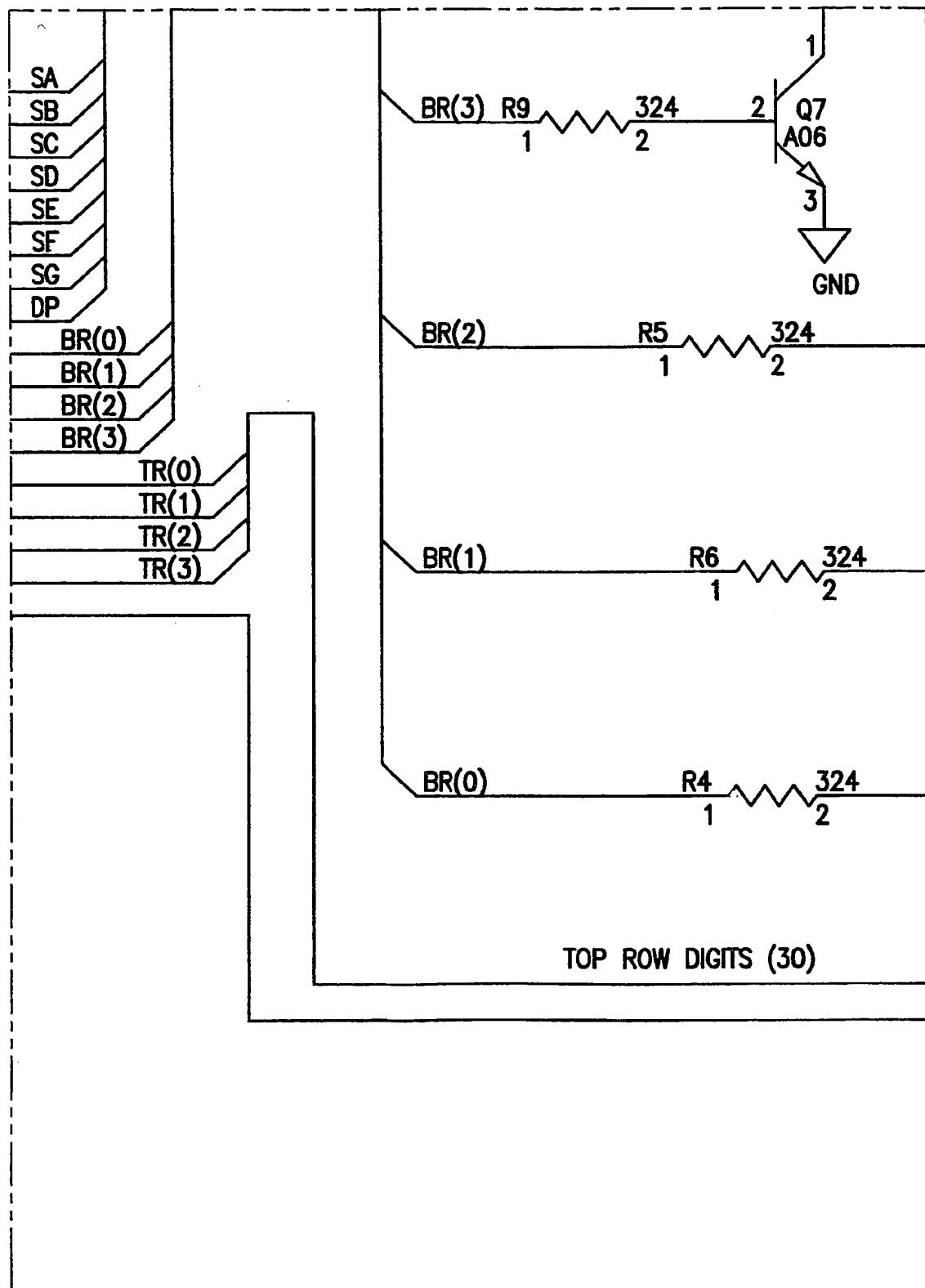
FIG. 68B



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FIG. 68C



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FIG. 68D

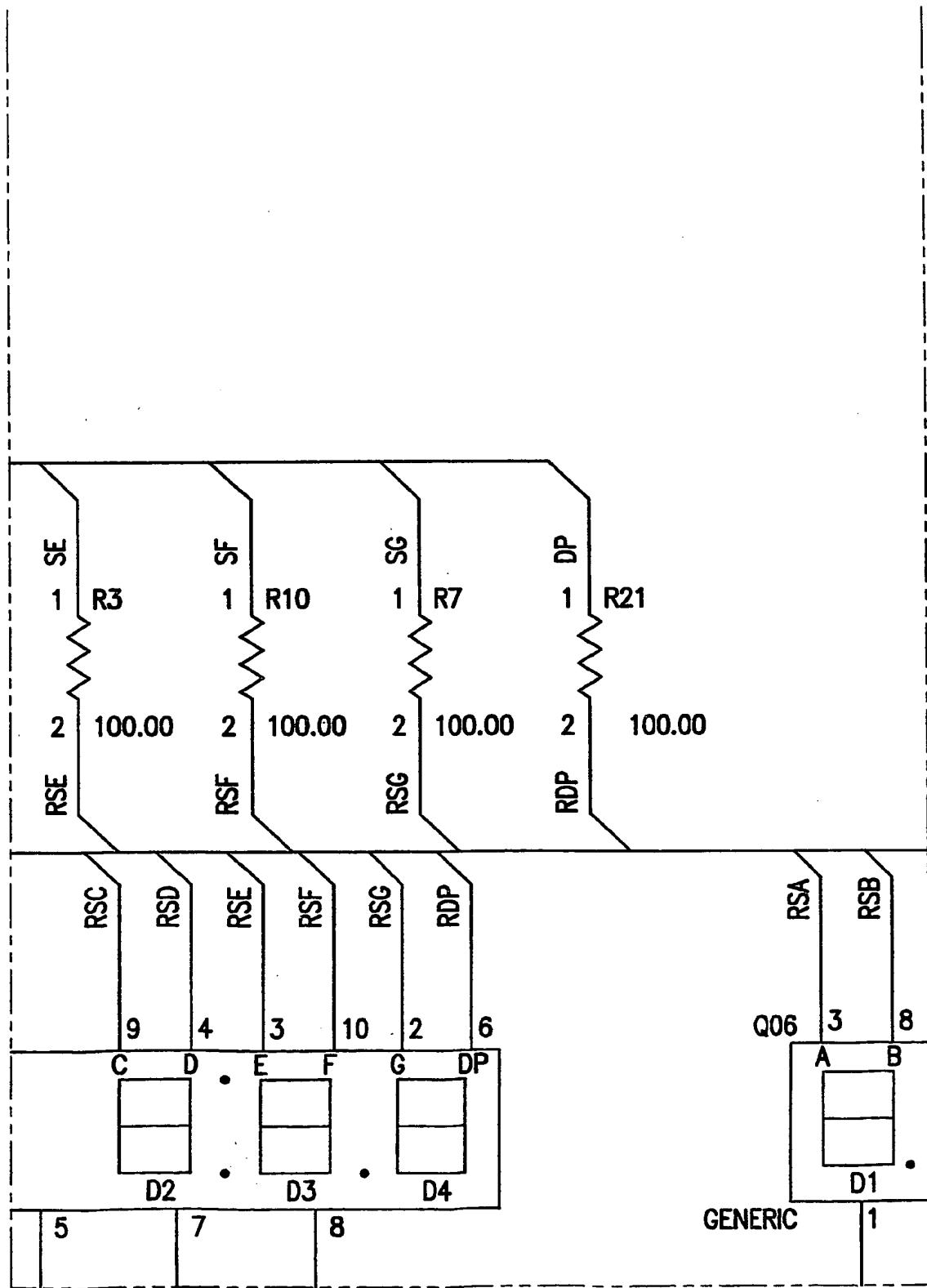
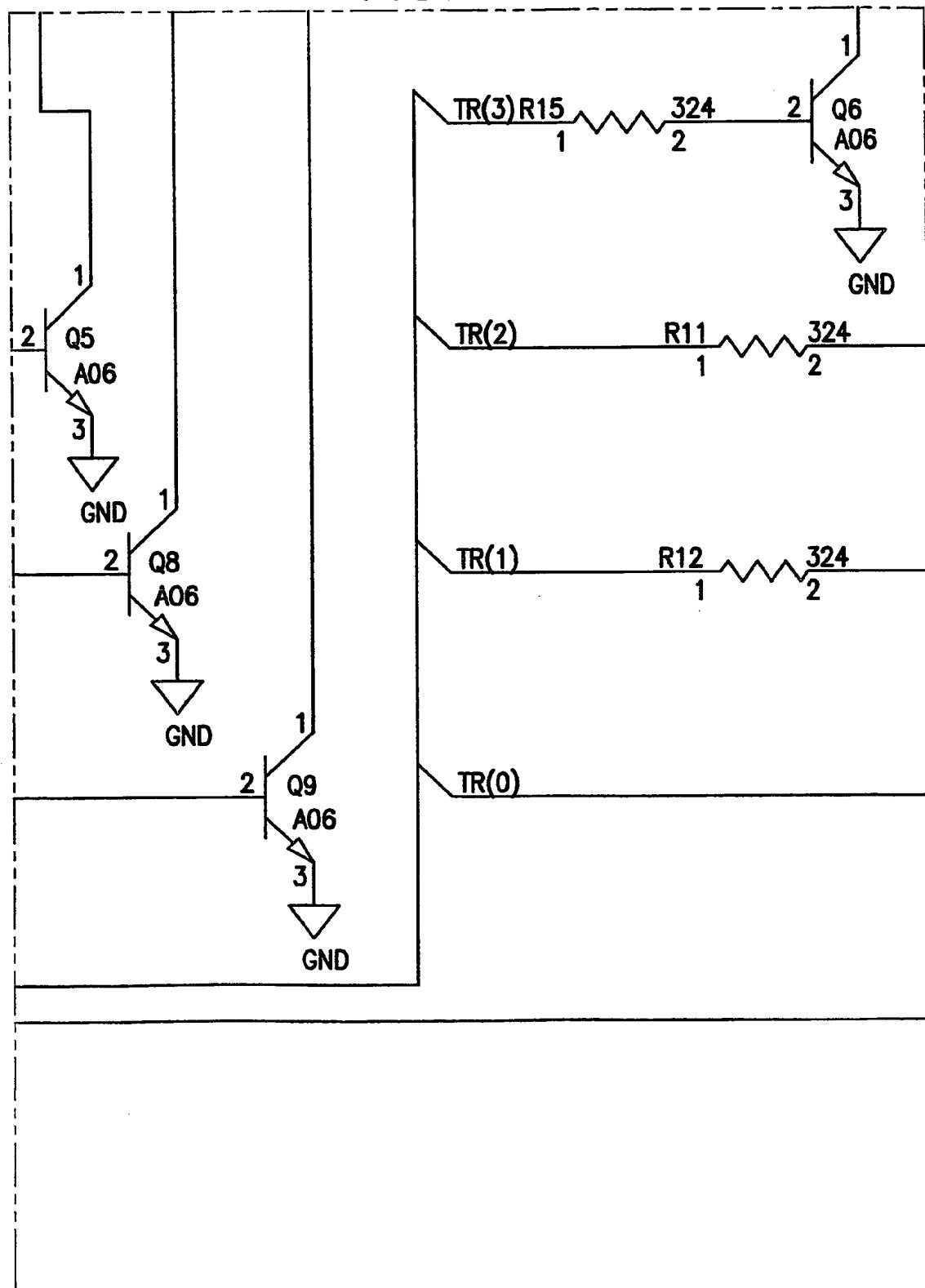


FIG. 68E



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FIG. 68F

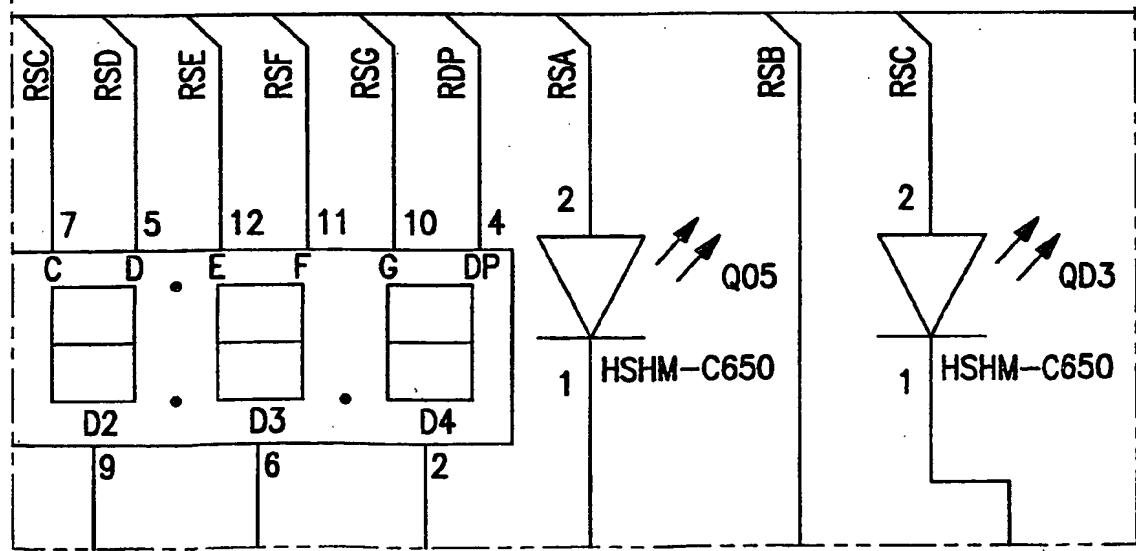
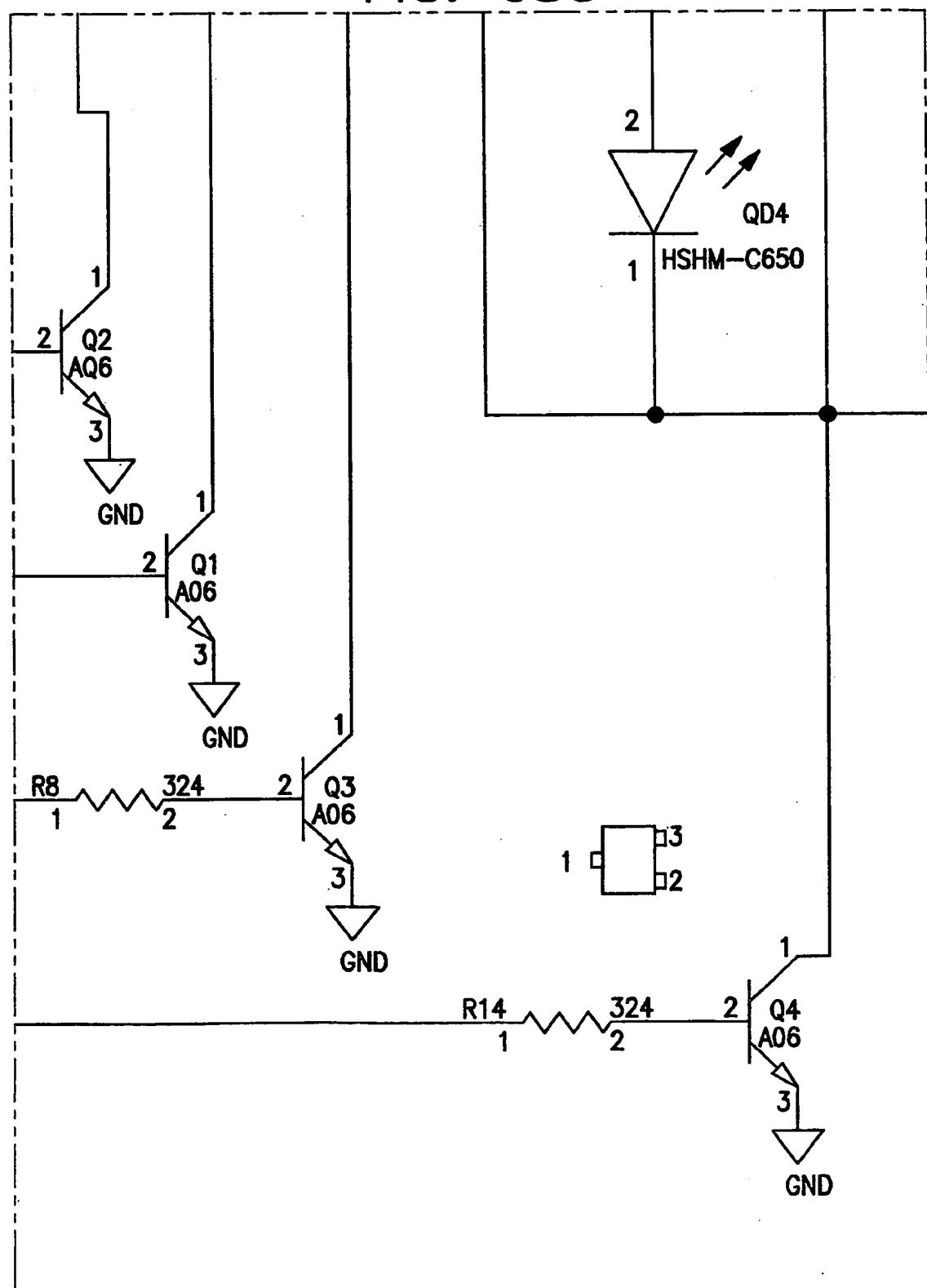


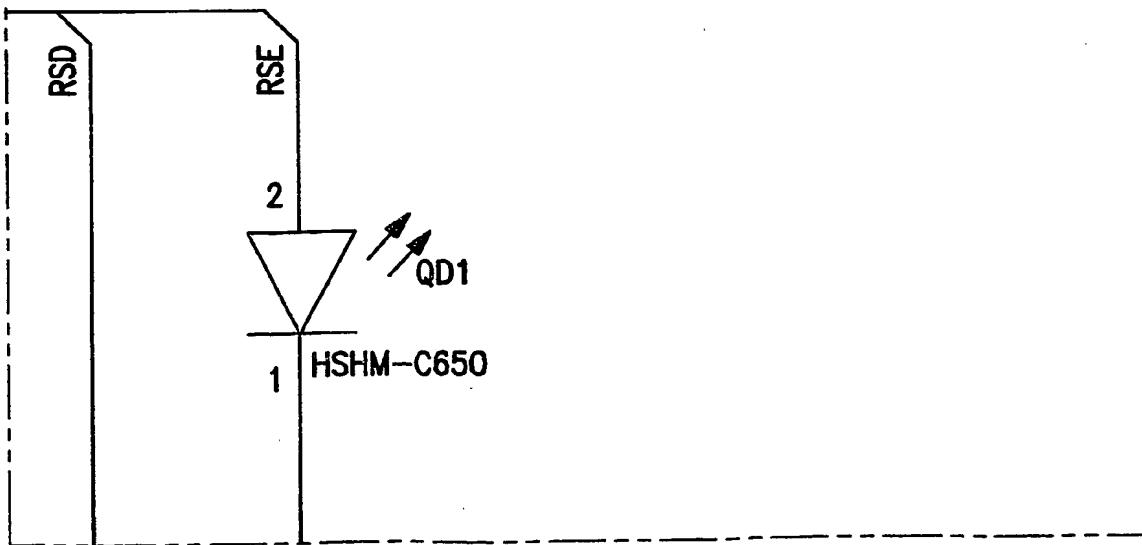
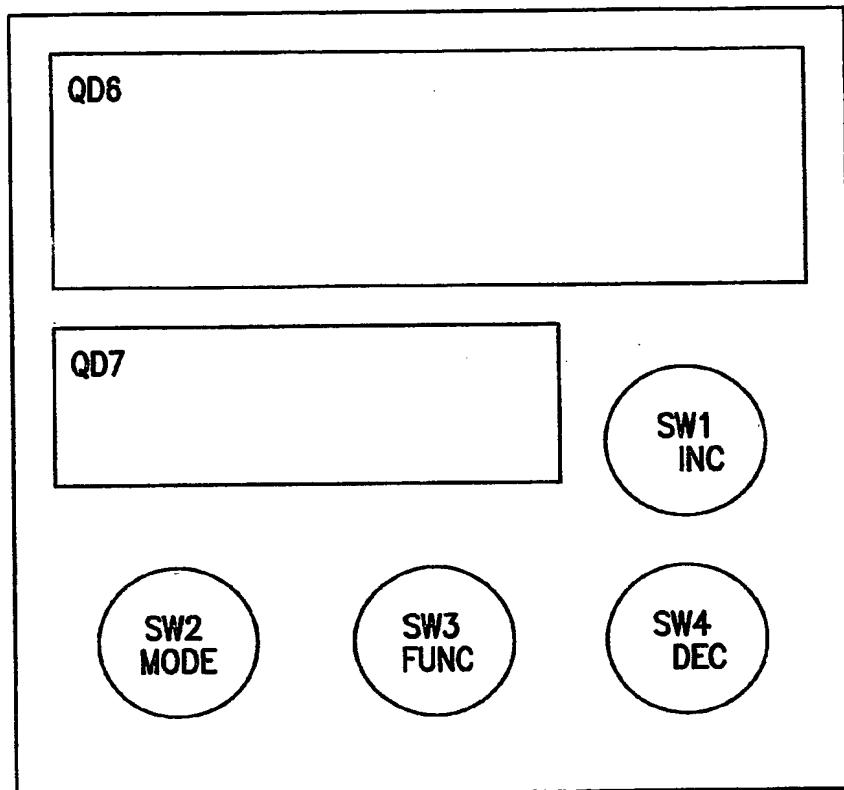
FIG. 68G



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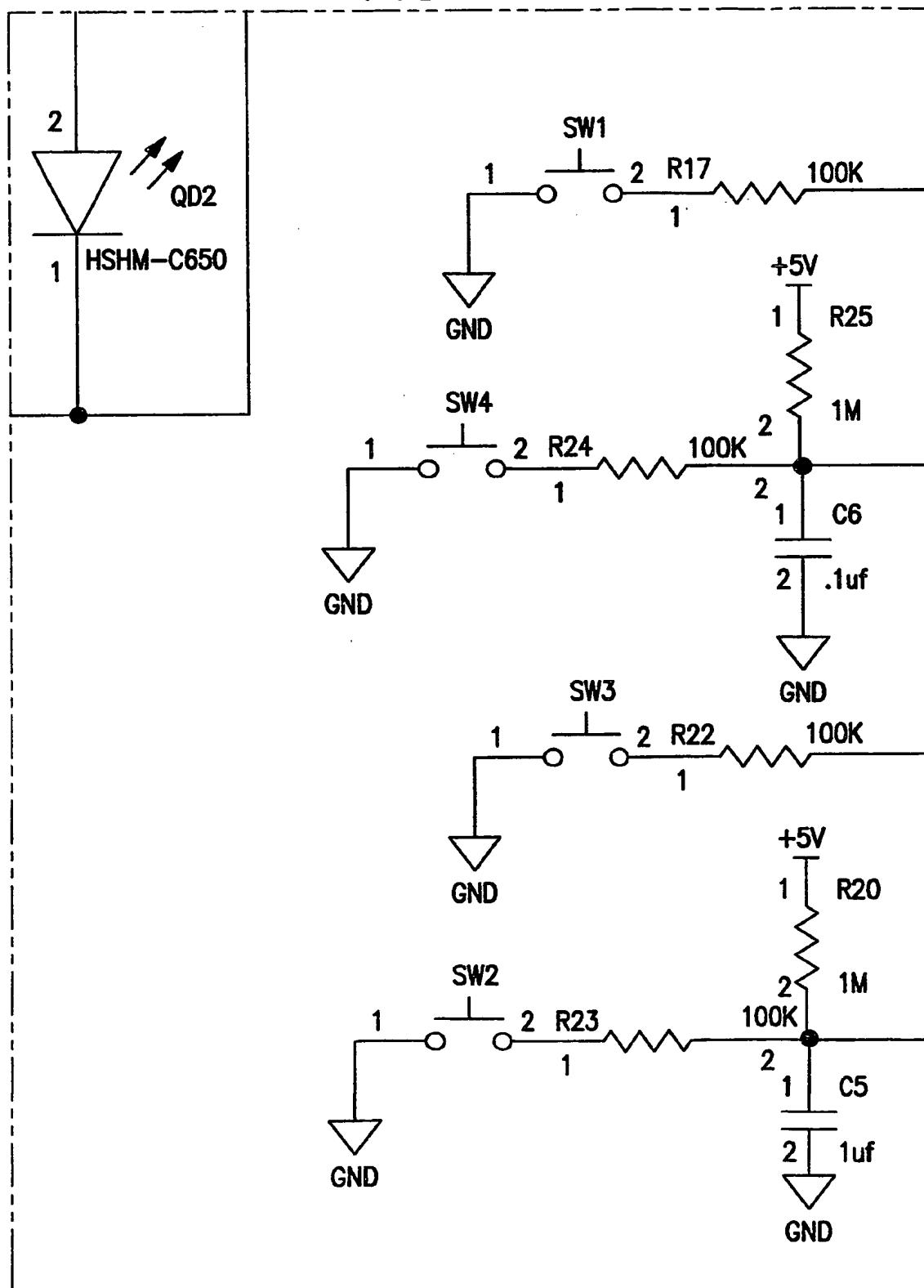
FIG. 68H



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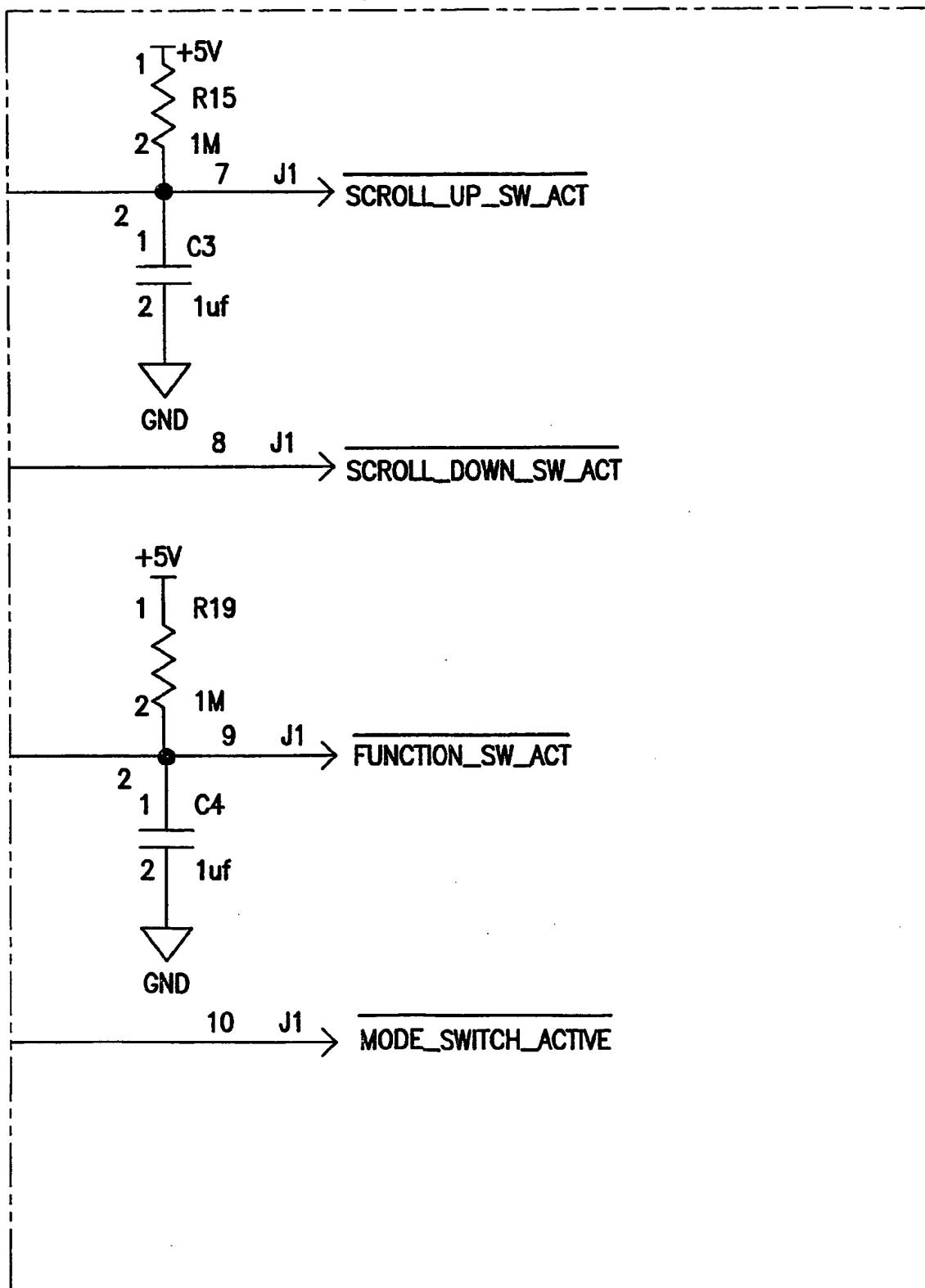
FIG. 68I



REPLACEMENT SHEET

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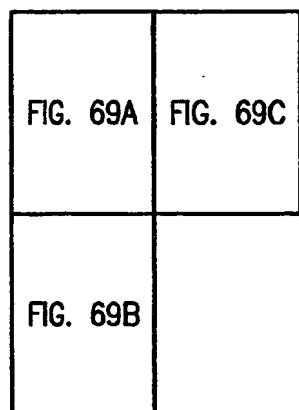
FIG. 68J



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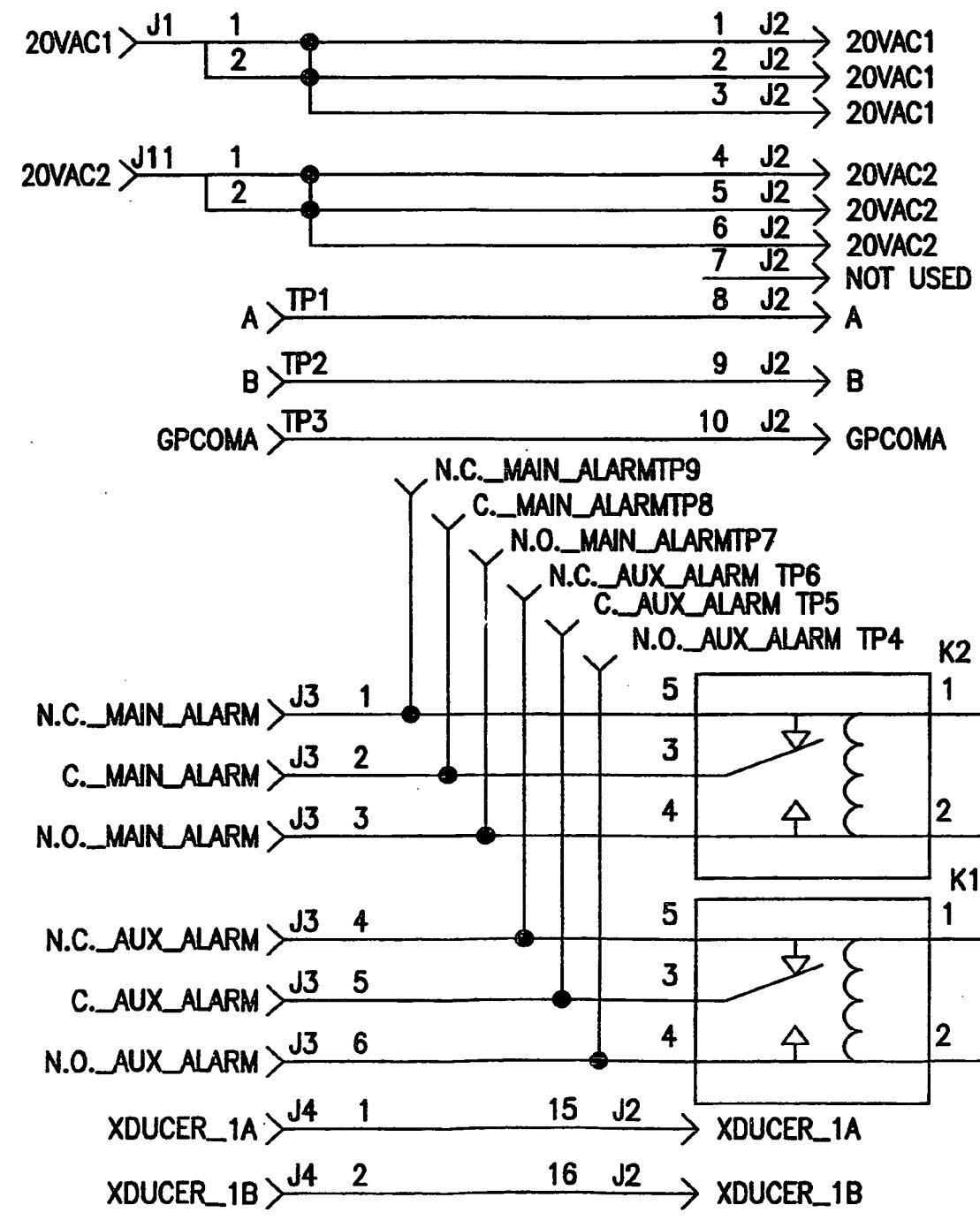
**FIG. 69**



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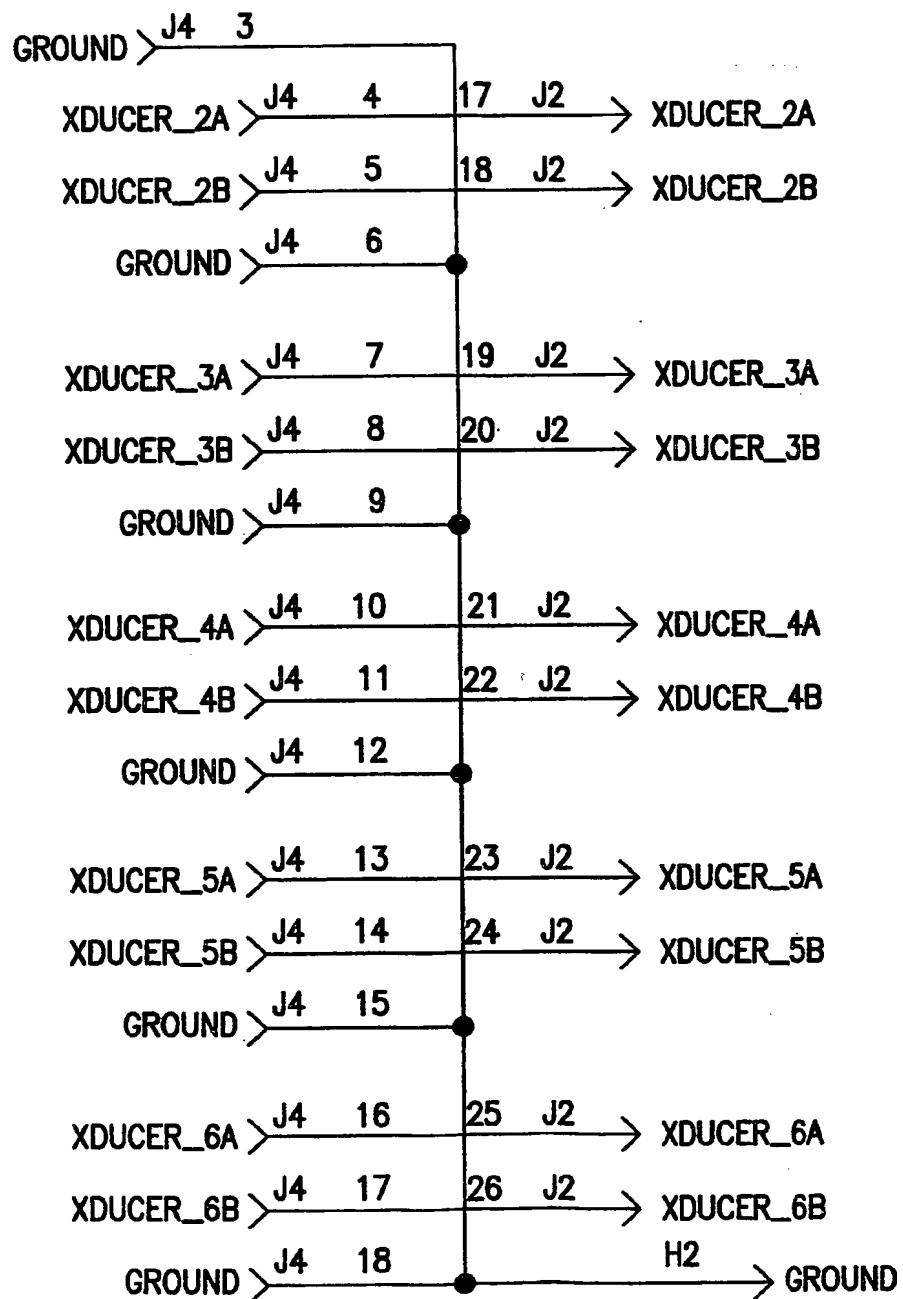
FIG. 69A



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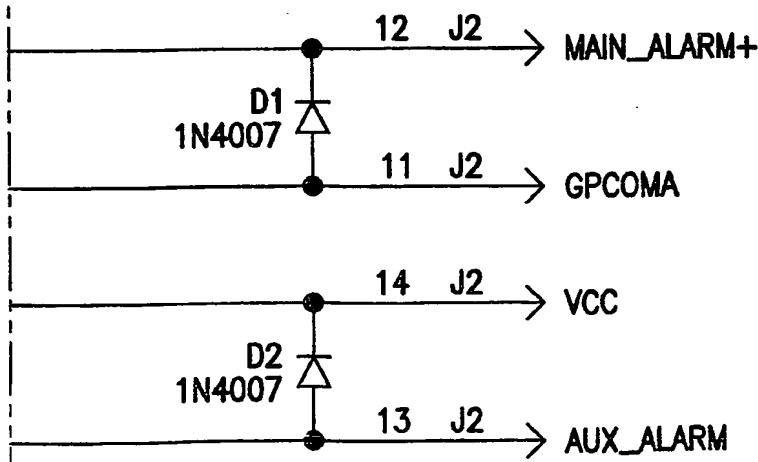
FIG. 69B



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FIG. 69C



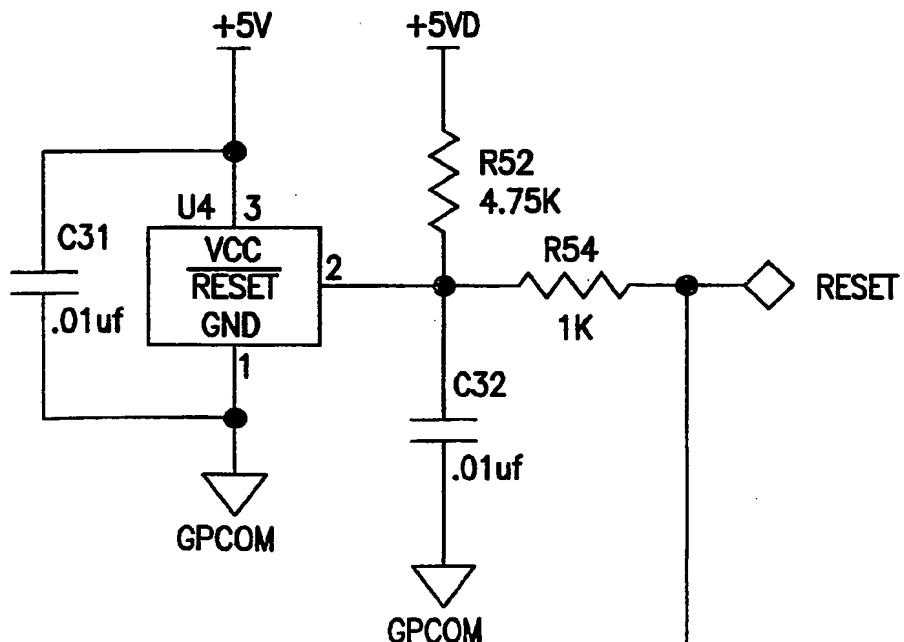
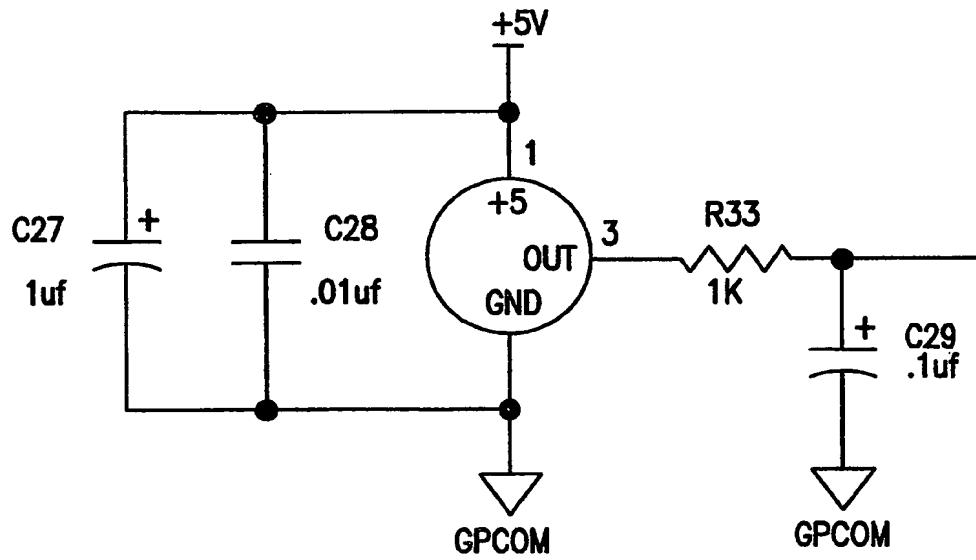
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**FIG. 70**

FIG. 70A	FIG. 70C	FIG. 70E	FIG. 70G	FIG. 70I
FIG. 70B	FIG. 70D	FIG. 70F	FIG. 70H	FIG. 70J

FIG. 70A



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**FIG. 70B**

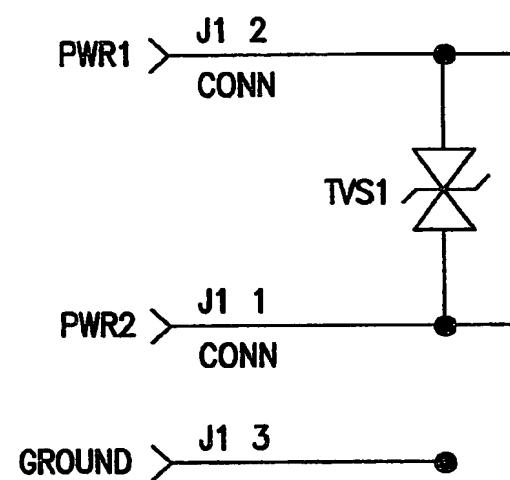


FIG. 70C

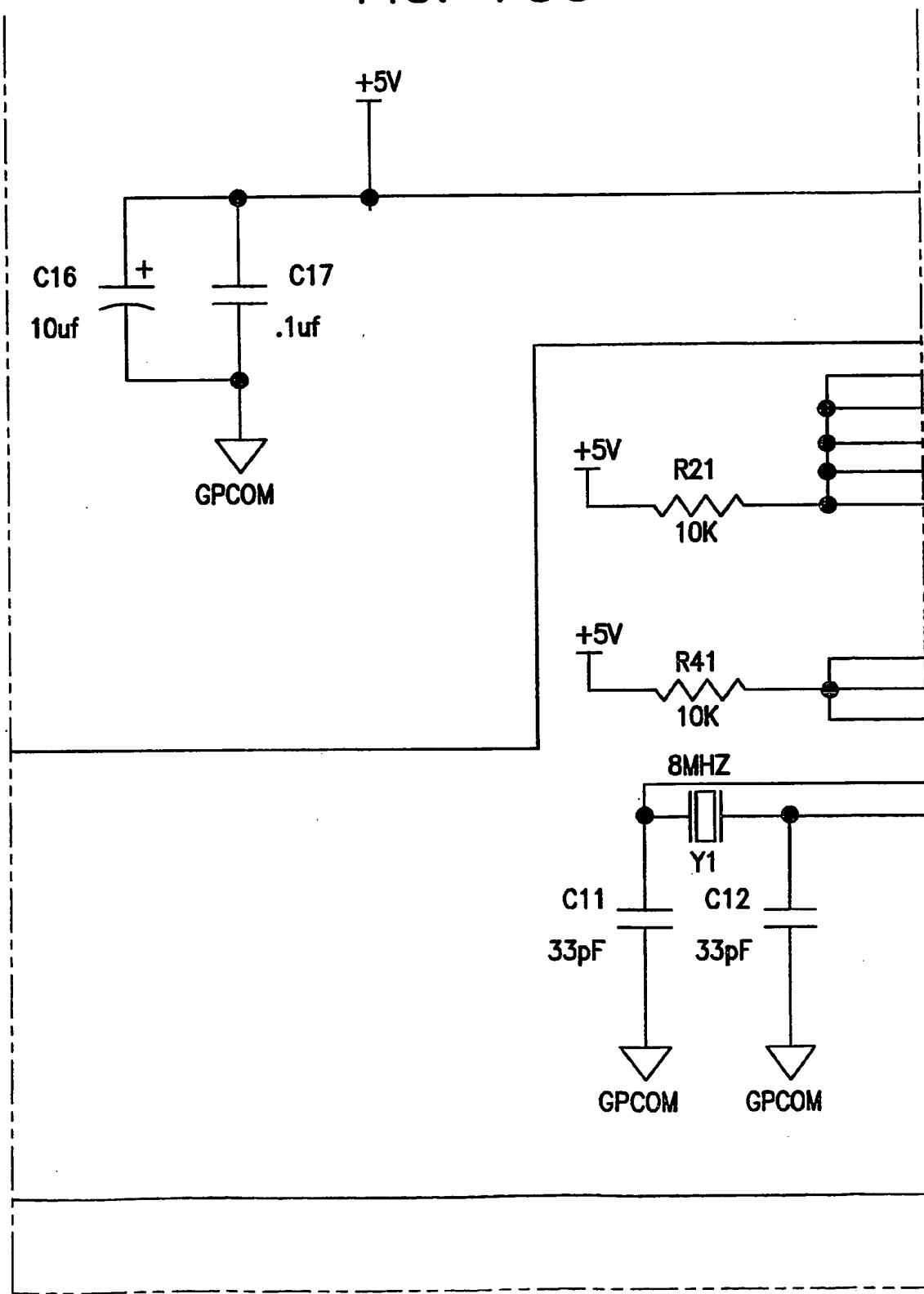
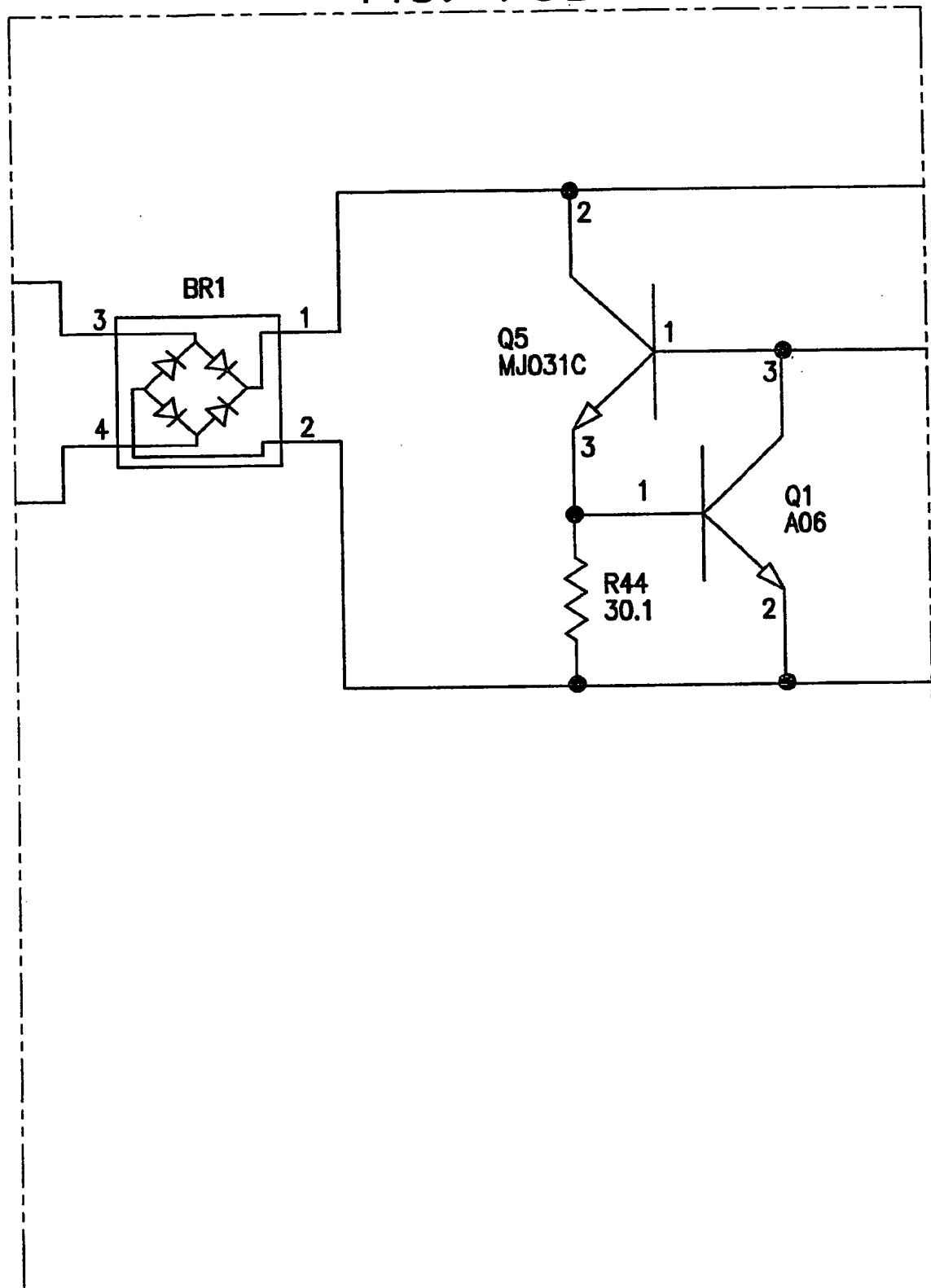


FIG. 70D



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FIG. 70E

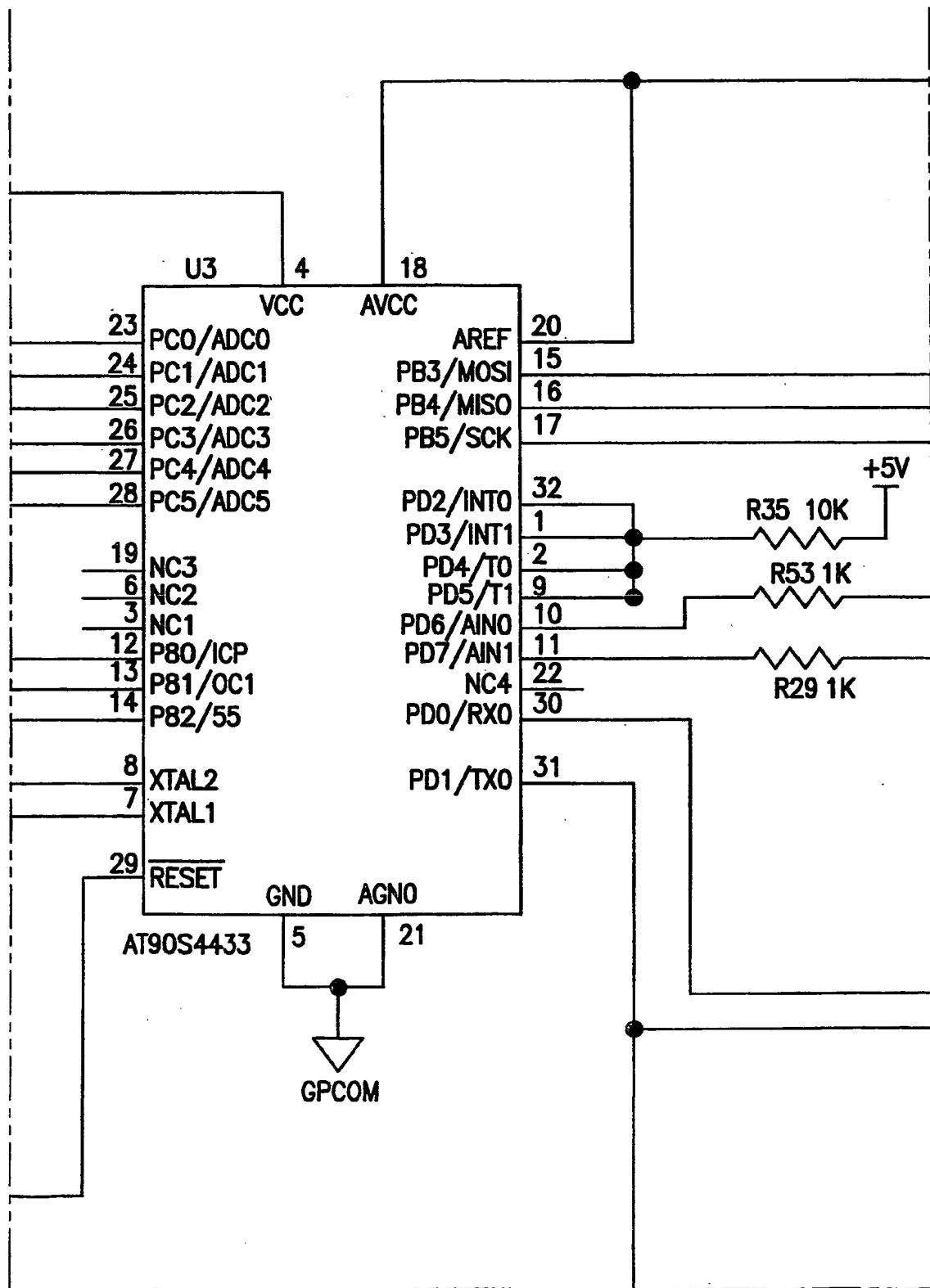
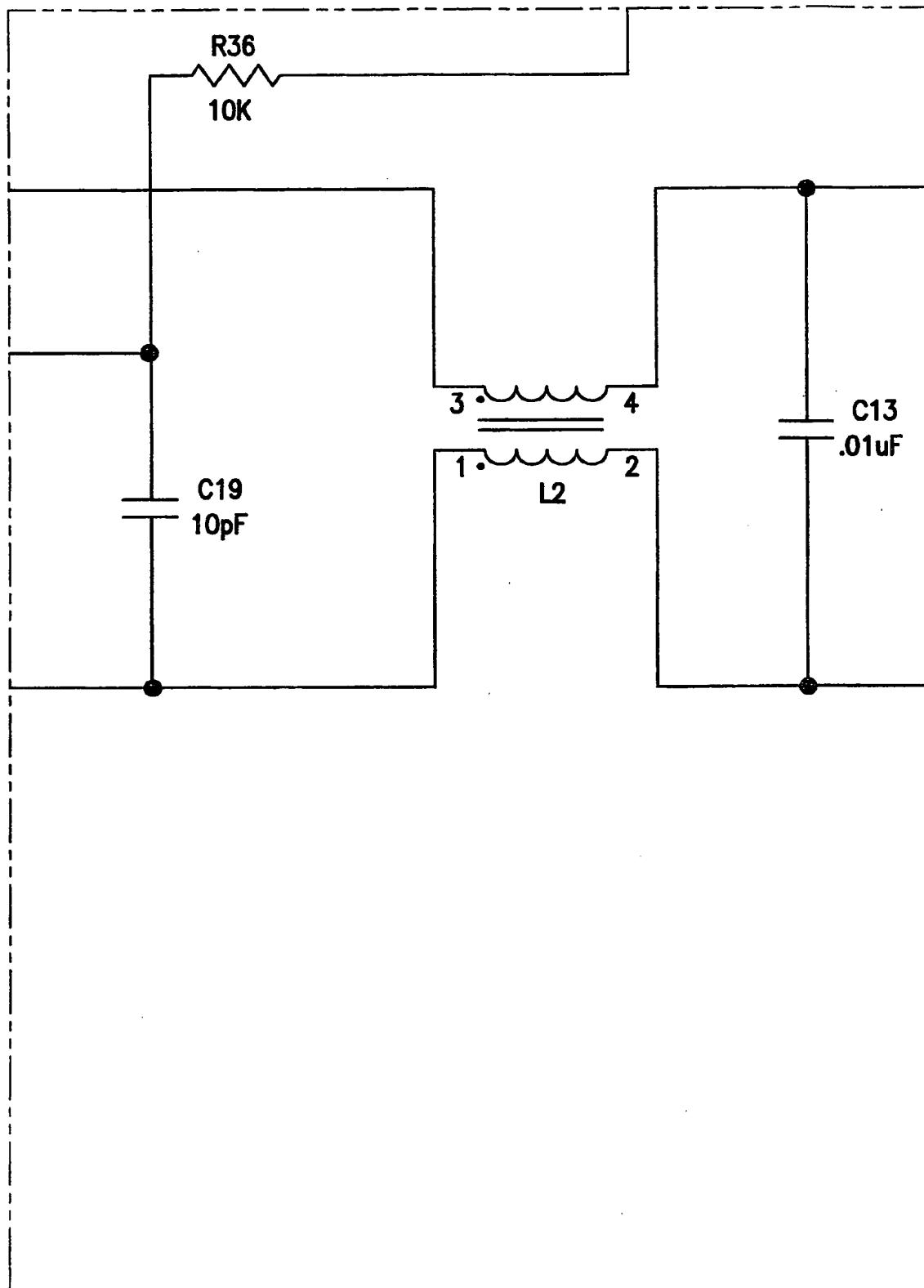


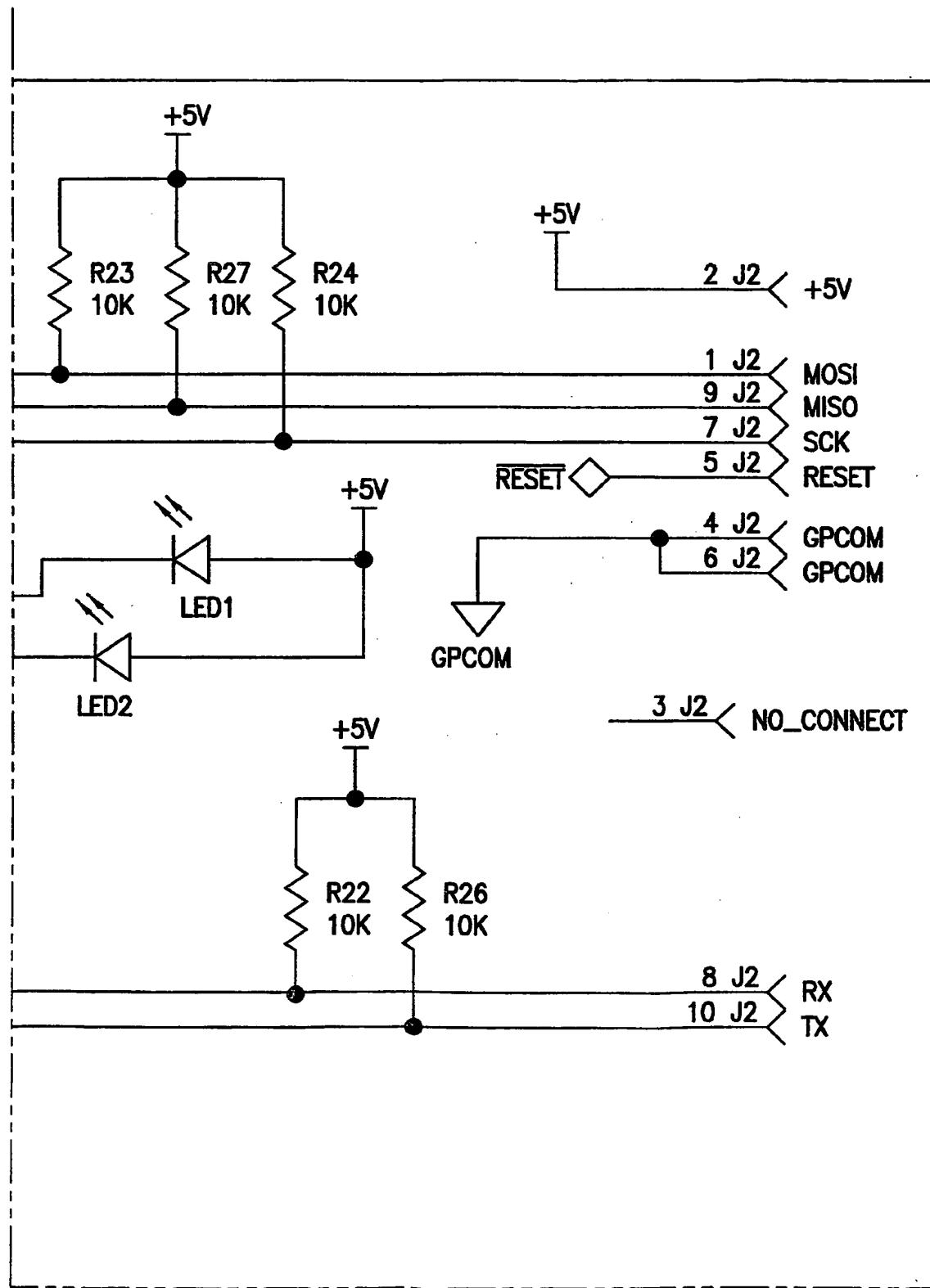
FIG. 70F



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FIG. 70G



## **REPLACEMENT SHEET**

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FIG. 70H

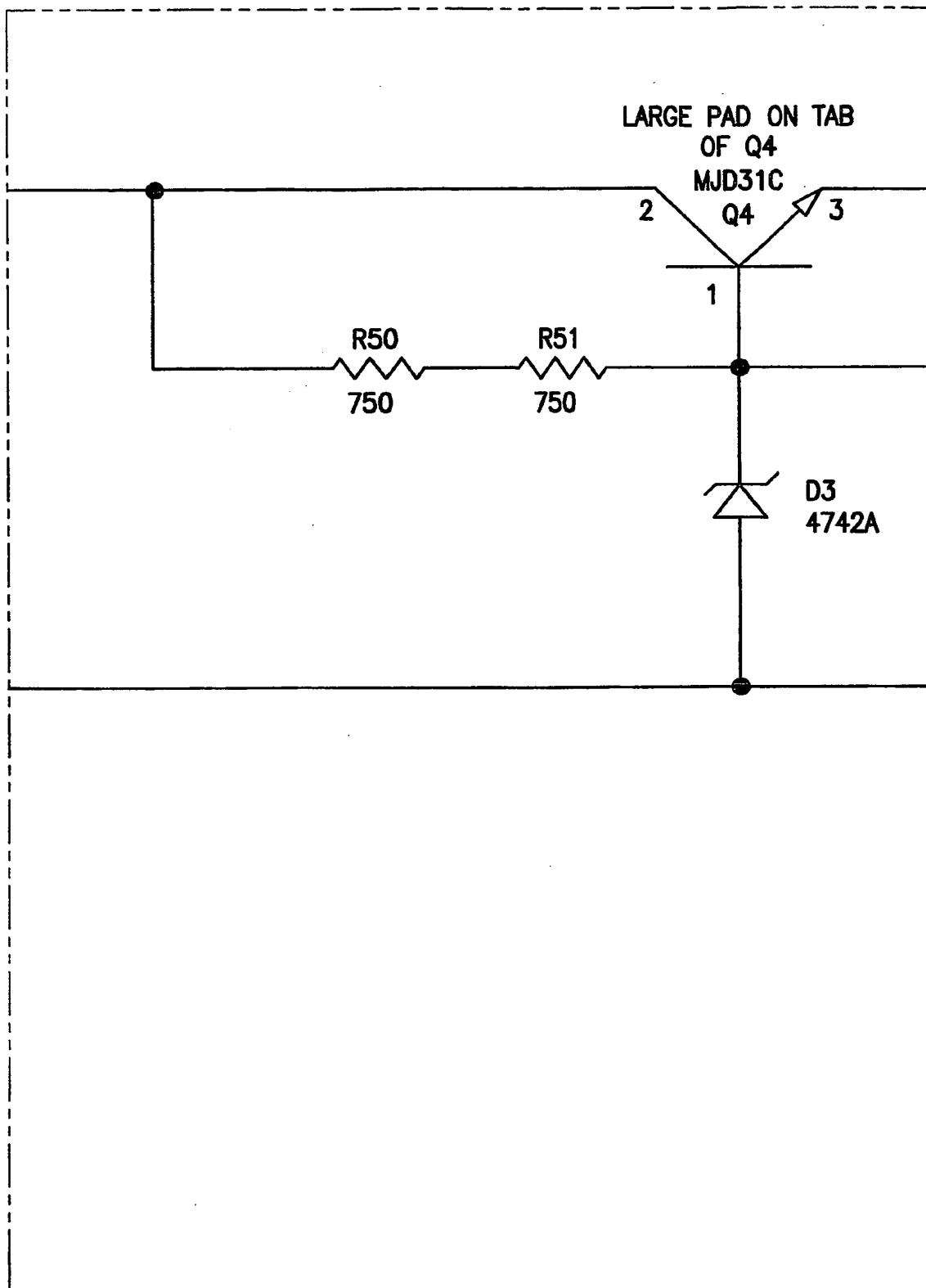
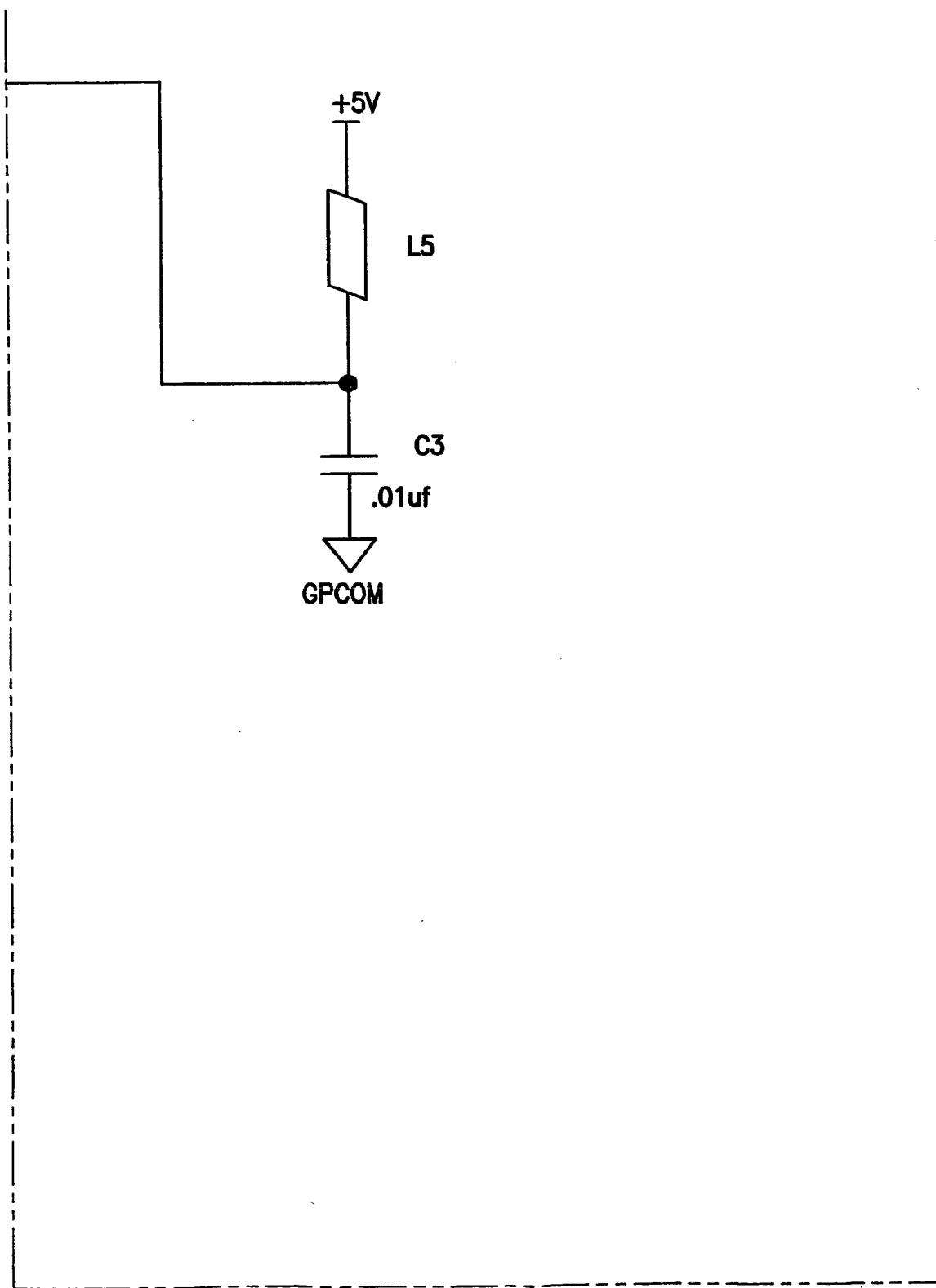


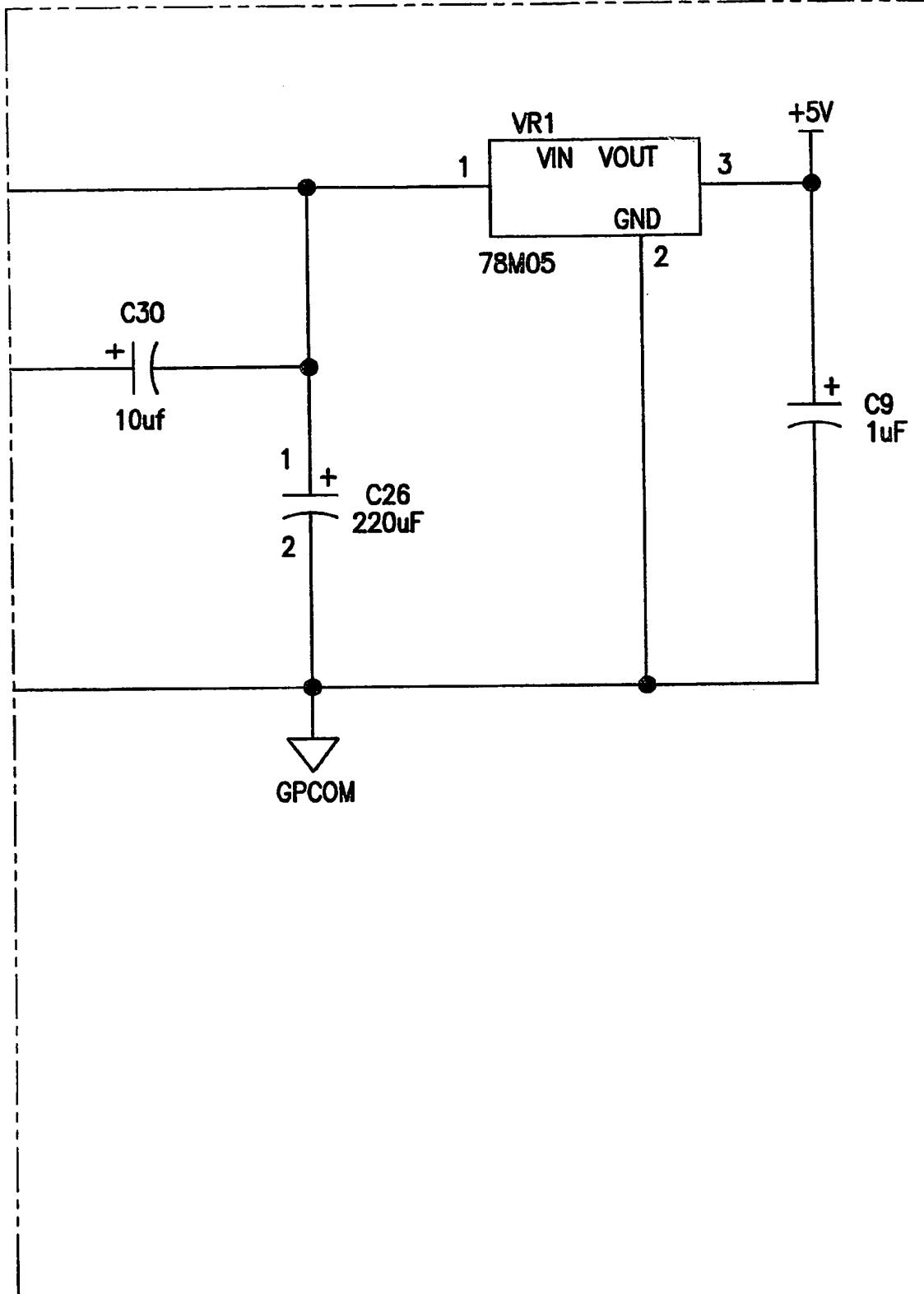
FIG. 701



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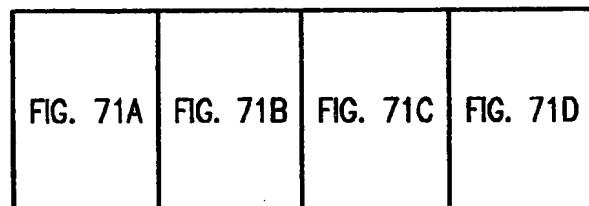
FIG. 70J



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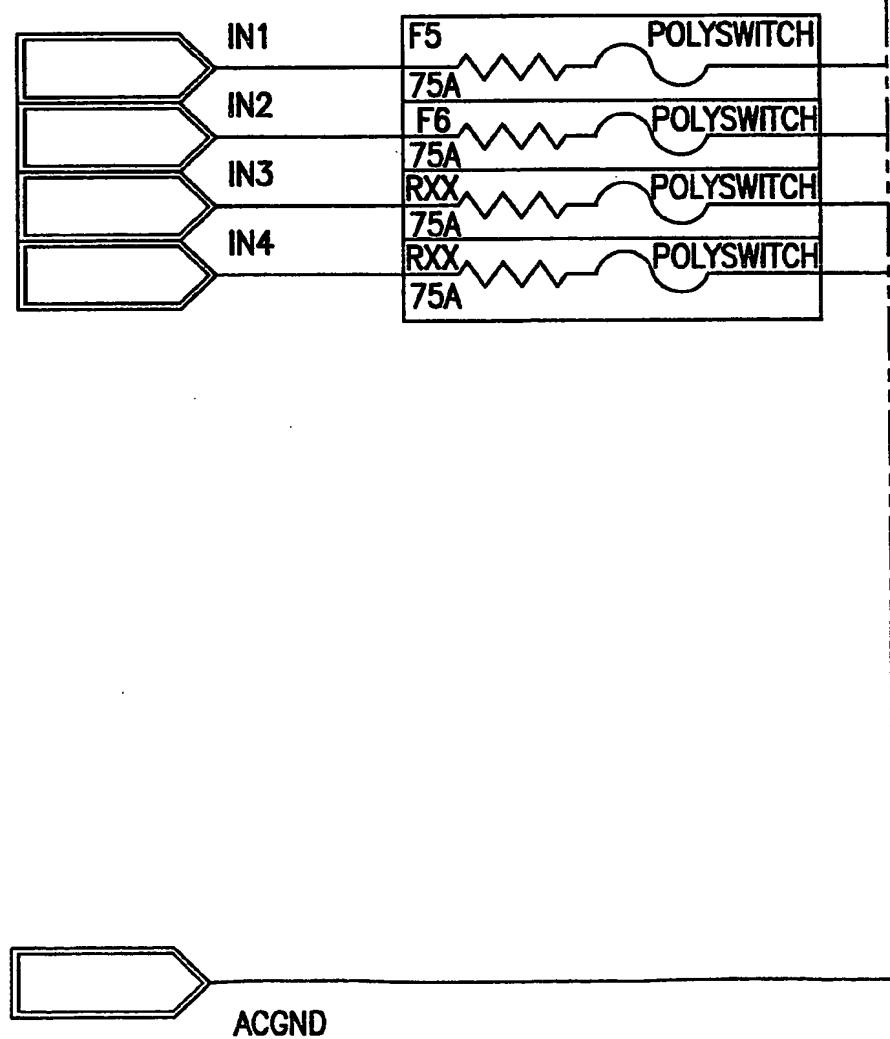
**FIG. 71**



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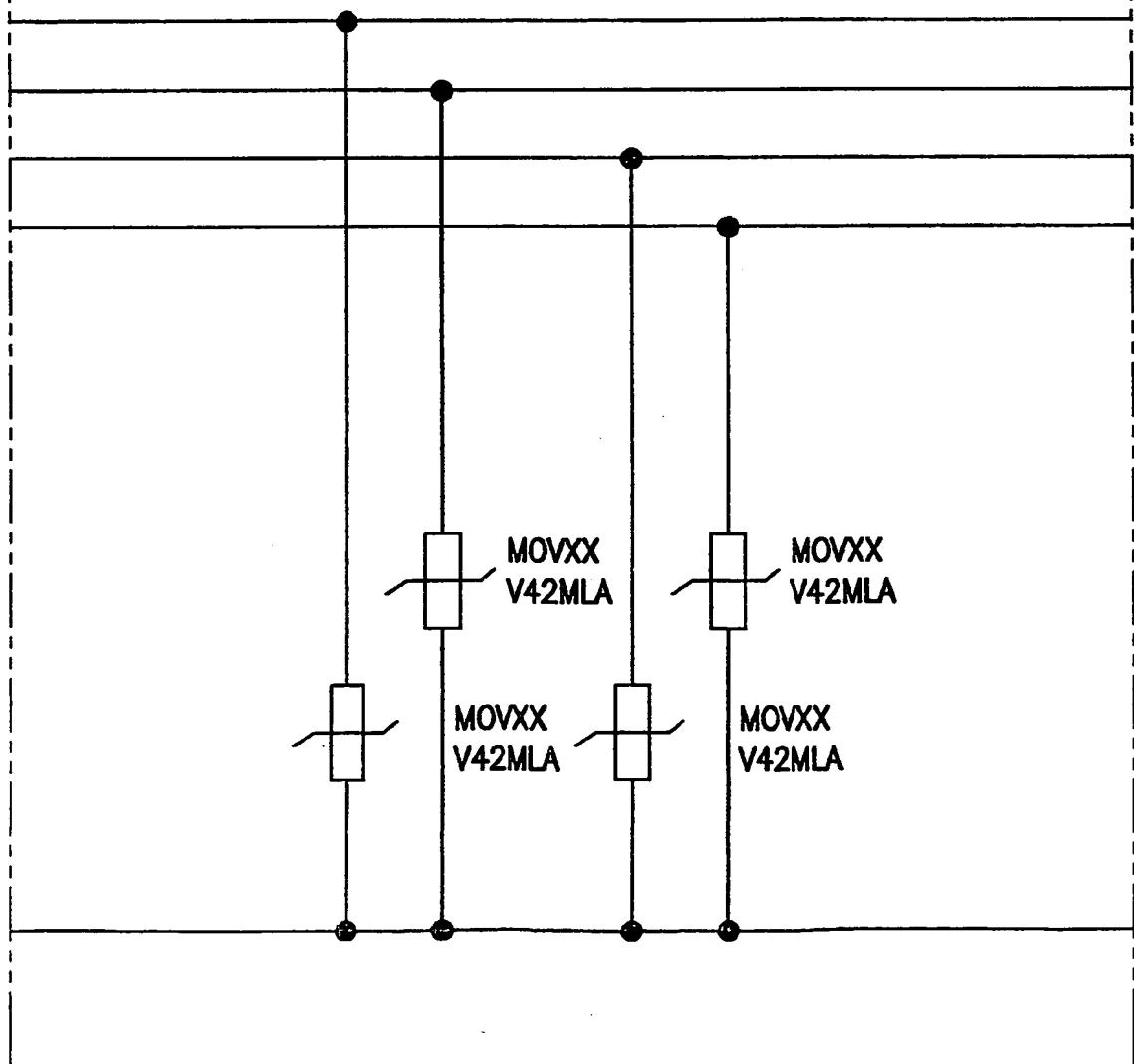
FIG. 71A



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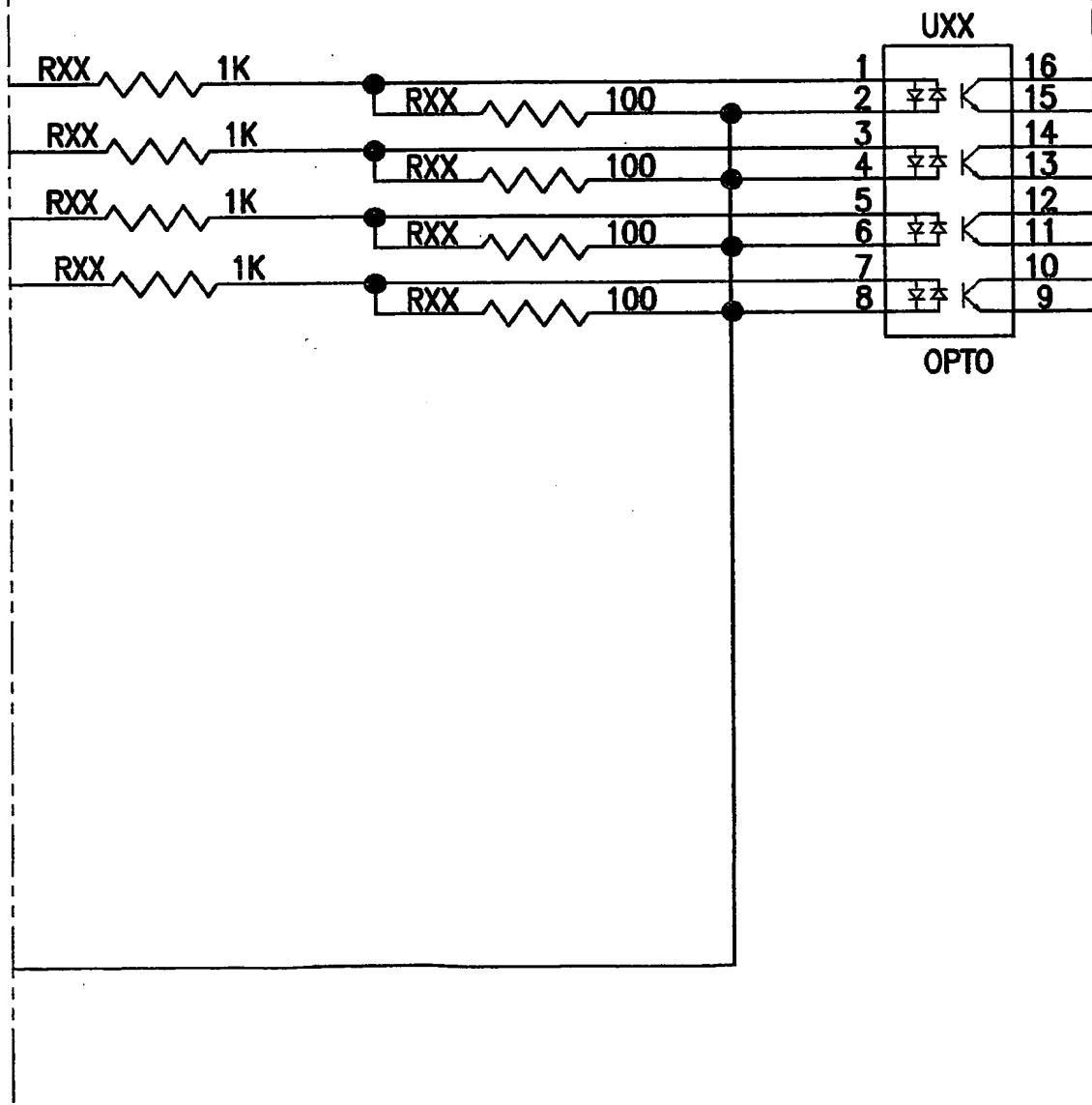
FIG. 71B



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FIG. 71C



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FIG. 71D

